Digitized by the Internet Archive
in 2014

https://archive.org/details/b19974760M1589

THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: BANK 852.

Established in ENGLAND, 1859.]

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET, LONDON, E.C.

TELEGRAPHIC ADDRESS: "CHEMICUS LONDON."

Established in [AUSTRALASIA, 1885.

No. 1,515. Vol. LXXIV. FEBRUARY 6, 1909

{Subscription, 10s. per annum, including Diary. Free the World over. Single Copies, 4d. each. Winter and Summer Issues, 1s. each. Post Free.

P.A.T.A.

1/- & 2/-

Boval Floor Gloss

(TRADE MARK.)

Stocked by the leading Wholesale Houses.

For preparing Ballroom Floors, &c.

Proprietors: James Woolley, Sons & Co., Ltd., Manchester. INDENTS THROUGH BRITISH SHIPPERS.

GREEN EXTRACTS.

Green Extracts should be made from the fresh herb, not from plants that have lain for a day or two in a railway truck. Our works are in the midst of the growing plants, and thus the extracts are made from fresh, unwilted herb. The result is a product of unrivalled appearance and efficacy.

WHOLESALE & EXPORT ONLY OF

Stafford Allen & Sons (LIMITED),

Distillers of Essential Oils, &c.,

LONDON, E.C. & LONG MELFORD, SUFFOLK.

The Fairchild Products.

"FAIRCHILD MEANS RELIABILITY."

FAIRCHILD BROS. & FOSTER, NEW YORK.

Agents:

BURROUGHS WELLCOME & CO.

London, Sydney, Cape Town.

Now Ready.

SQUIRE'S COMPANION.

THE LANCET says:—

Splendidly as the "COMPANION" has served in the past, so is it calculated to serve equally in the future, for no pains have been spared to bring the present edition into complete line with the elegances and refinements of modern pharmaceutical attainments. . . . The "COMPANION" is a CLASSIC.

THE CHEMIST & DRUGGIST says:—

Virtually a new book, unequalled in the English language for its treatment of practical pharmacy and pharmaceutical chemistry.

Full Terms on application.

SQUIRE & SONS,

413 OXFORD ST., LONDON.

Index and Buyers' Guide, pp. 7, 8, 9, 10, and 11.

T. HOWARD LLOYD & Co

WHOLESALE & EXPORT DRUGGISTS AND MANUFACTURING CHEMISTS.

LEICESTER

THE MODERN & UP-TO-DATE FIRM, WELL KNOWN FOR . .

EXCELLENCE of QUALITY!

PILLS, TABLETS, CAPSULES

. . ARE . .

"A1 AT LLOYDS."

OUR FACTORY IS WELL EQUIPPED WITH **MODERN** :: **MACHINERY** FOR THE MANUFACTURE OF ::

GALENICALS OF ALL KINDS!!

SPECIAL ATTENTION GIVEN TO

PACKED GOODS for RETAIL SALE.

Complete and fully illustrated Lists on application to

T. HOWARD LLOYD & Co

ST. JAMES' ST., LEICESTER.

SOUTHALLS'

"Empire" & "New Empire"

FEEDING BOTTLES

WITH SOUTHALLS' NEW REGISTERED VALVE

Registered No. 523,818

WITH SOUTHALLS' NEW REGISTERED VALVE

WE have just designed and registered a Valve for the two-necked feeding bottle, "The Empire," which we believe will be conceded to be the best yet put upon the market.

The "EMPIRE" bottle of best English make, English teat, and registered red rubber valve as described above. Complete in cardboard box, with brush . . . . **8/- per dozen**

The "New Empire" bottle and teat of foreign make, grey rubber registered valve, in cardboard box . . . . . **4/6 per dozen**

Customers' name and address printed free for orders of 3 dozen and upwards.

A Working Demonstration

We supply a Show-stand having on the one side the feeder in position for use, with the milk dripping from the teat due to the regular admission of air through the valve. On the other side the bottle is reversed, showing that the milk does not leak through the valve.

COMPLETE WITH STAND, CARDS, BOTTLES, and TUMBLERS

1/6 each

Southall Bros. & Barclay, Ltd., Birmingham

ESTABLISHED 1826.

PHILIP JOSEPHS & SONS,

SHOPFITTERS,

93 OLD ST., GOSWELL ROAD,

LONDON, E.C.

Have pleasure in announcing their

Stocktaking Sale

Will commence on FEBRUARY 8th, 1909, when ACTUAL BARGAINS in all Departments will be offered.

A FEW EXAMPLES OF REDUCTIONS.

	USUAL PRICE.	SALE PRICE.
7 ft. Dispensing Screen, Counter, and Sponge Case....	£18 10 0	£16 0 0
10 ft. Mahogany Wall Case	£18 10 0	£14 10 0
6 ft. Mahogany Wall Case	£8 15 0	£7 10 0
6 ft. Screen and Glass Counter under	£15 10 0	£11 10 0
16 ft. Drug Fixture	£22 10 0	£18 10 0
8 ft. Wall Case	£11 10 0	£10 0 0

All Goods in Perfect Condition.

☞ *WRITE OR CALL STATING REQUIREMENTS.*

Wires: "JOSIPHIAH LONDON." *Telephone: LONDON WALL 9057.*

SUPPLIED TO THE ROYAL HOUSEHOLD

Vibrona

THE IDEAL TONIC WINE

REFRESHES THE STRONG
RESTORES THE WEAK
REVIVES THE DEPRESSED

RECOMMENDED BY THE HIGHEST MEDICAL AUTHORITIES

Handsomely framed Showcards and descriptive literature may be obtained from the sole Proprietors, FLETCHER, FLETCHER & CO., Ltd., Holloway, LONDON, N.

PEOPLE ARE ASKING

What is a Soap Biscuit?

Perhaps they have asked you.

If so, do you intend to let them go away unsatisfied, or would you not prefer to make

100% PROFIT

by giving them the required information?

There are thousands—hundreds of thousands—of people using artificial teeth, and hitherto there has been no satisfactory detergent on the market that would cleanse, polish, and preserve them.

Such an article is "BISCUIT"; it was made to do these things—made on purpose.

It is pleasant to use, hygienic, antiseptic, leaves a nice taste in the mouth, and costs you **4½d.** per Biscuit. It is endorsed by the "Lancet."

The Retail price is protected at 9d., 100 per cent. Profit on your outlay.

"Biscuit" is our registered trade mark, and can only be supplied by us.

Can we send you a sample dozen?

Sole Proprietors and Manufacturers of "BISCUIT" (Regd.)

EDWARD COOK & CO., The Soap Specialists, LONDON.

INDEX TO ADVERTISEMENTS IN THIS ISSUE.

HEAD OFFICE: 42 Cannon Street, London, E.C Telegraphic Address: "CHEMICUS LONDON." Telephone No. 852, Bank
BRANCH OFFICES: MELBOURNE, SYDNEY, AND ADELAIDE, AUSTRALIA.

Page
Albrethson, A., & Co. 42
Allcock's Plasters 49
Allen, Stafford, & Sons, Ltd. Cover
Alliance Drug & Chemical Co. 43
Anglo-American Drug Co. ... 38
Arlie, Ltd. 46
Asche, C. F., & Co. 45
Ashton & Parsons, Ltd. 53
Auto-Strop Safety Razor Co., Ltd. 54

Bailey, W. H., & Son 48
Barnett & Foster 28
Beatson & Co. 24
Beetham, M., & Son 16
Berdoe & Fish .....*Col. Supp.*
Bewley & Draper, Ltd. .....*Cover*
Bishop, A., Ltd. 35
Blackie, R. 41
Boehm, F., Ltd. 14
Bond's Marking Ink 15
Bow, R. H. 48
Box, W. H. 45
Brett & Co. .....*Col. Supp.*
Bristol-Myers Co. 27
British Drug Houses, Ltd. ... 34
Brown & Blackburn 50
Brunner, Mond & Co. .....*Cover*
Burge, Warren & Ridgley, Ltd. 49
Burrough, J., Ltd. .....*Text* 224
Burroughs Wellcome & Co. ... 33
Burt, Boulton & Haywood, Ltd. 47

Cadbury Bros. .....*Cover*
Callard & Co. 51
Chemists' Co-operative Wholesale 44, 45
Christy, T., & Co. 51
Churchill, J. & A. 22
Coleman & Co., Ltd. 24
Condy & Mitchell, Ltd. 35
Cook, E., & Co., Ltd. 6
Cox, A. H., & Co., Ltd.....*Cover*
Crown Perfumery Co. 17

Page
Darton, F., & Co. 25
Davies, Sons, & Co. 38
Day & Sons (Crewe), Ltd. 52
Day, Son, & Hewitt 32
Denoual & Co. 24

Edwards' Harlene Co. 13
Eucryl, Ltd. 14
Evans, Gray, & Hood 29
Evans Sons Lescher & Webb, Ltd. 19, 39
Ewen, J., & Sons 32
Express Developing Co. 24

Fairchild Bros. & Foster ...*Cover*
Farmer, F., & Co. 50
Faulding, F. H., & Co. 38
Fentiman, A. G. 51
Fentiman, A. J., & Co. 50
Fink, F., & Co. 50
Fletcher, Fletcher & Co., Ltd. 5 & *Text* 224
Ford, Shapland, & Co. 27
Fulham Pottery and Cheavin Filter Co. 49

Galen Manfg. Co. 50
Gardner, W., & Sons (Gloucester), Ltd. 48
Genin, L., & Co. 26
Grapelax, Ltd. 50
Grimble & Co., Ltd. .....*Text* 224

Halder, E. C. 51
Harker, Stagg, & Morgan, Ltd. 16
Haywood, J. H. 48
Henry, T. & W. 46
Hoff, M. 40
Hoffmann-La Roche & Co. 42
Howards & Sons, Ltd. 37
Hubbuck & Son 36
Hughes, E. Griffiths 50
Hull Oil Manfg. Co., Ltd. 38
Huntley, Boorne & Stevens, Ltd. 51

Page
Improved Mailing Case Co. ... 22
Ingram & Royle, Ltd. 26
Iron-Ox Remedy Co., Ltd. ... 36
Isaacs, I., & Co. 32

Jackson, E. E. 42
Josephs, Philip, & Sons, Ltd. 4

Kaufmann, Dr. 45

Laurance, L. 51
Leeds College of Pharmacy ... 21
Leslies, Ltd. 51
Levermore, A., & Co. 50
Lloyd, T. Howard, & Co. ...*Cover*
Lofthouse & Saltmer 29
London College of Chemistry 21

McDougall Bros. 32
Macfarlan, J. F., & Co. 41
Manchester College of Pharmacy 21
Mandall & Co., Ltd. 40
Maw, S., Son & Sons 18
Menley & James, Ltd. 27
Millar, A., & Co., Ltd. 29
Mitchell, N. W., & Sons, Ltd. 24

Natural Food Co., Ltd. 27
Nitsche & Günther 23
North of England School 21
Northern College of Pharmacy 21

O'Brien, T. 25
Offord Patent Hygienic Truss Co., Ltd. 48
Oldfield, Pattinson & Co. 11
Oppenheimer, Son & Co., Ltd. 31
Outem Corn Remedy Co. 50

Paine & Co., Ltd. 46
Papier Poudré, Ltd. 17
Parke, Davis & Co. 31
Pelman School of Memory 21
Potter & Clarke, Ltd. 30
Premier Oil Extracting Mills, Ltd. 40

Page
Price's Patent Candle Co., Ltd. 16
Remington Typewriter Co. ... 20
Rigby Battock, Ltd. 15
Robinson & Sons, Ltd. 51
Roborat Co. 38
Rowan, A., & Bro. 47
Rubwel Co. 46

Sanford & Son 29
Sangers' 12
Sanitas Co., Ltd. .....*Text* 224
Scrubb & Co., Ltd. 14
Singleton & Cole, Ltd. 50
Smith, W. H., & Son .....*Text* 224
Snow, W. H., & Co. 50
South London School of Pharmacy 21
South of England School of Pharmacy 22
Southall Bros. & Barclay, Ltd. 3
Squire & Sons .....*Cover*
Stedman, Dr. 50
Sterkel, H. L. 15

Taylor & Brett 50
Townsend & Son 22
Tye, J., & Son 51

Van Houten's Cocoa 29
Van Oppen, Ross & Co. 15
Viscose Development Co. 15

Wardale & Co. 51
Warrick Bros. .....*Text* 224
Washington Chemical Co., Ltd. .....*Cover*
Wilcox, Jozeau, & Co. .....*Text* 224
Wilson Veterinary Medicine Mnfg. Co., Ltd. 50
Wood, V. 49
Wood's Peppermint Cure 40
Woolley, J., Sons & Co., Ltd. *Cover*

Zeal, G. H. 22
Zotos, Ltd. 32

THE BUYERS' GUIDE.

Firms whose names appear in THE BUYERS' GUIDE are advertising in this or other issues of "THE CHEMIST AND DRUGGIST." The headings refer generally to the classes of goods advertised. No charge is made to advertisers for the insertion of their names under appropriate headings, but only the names of those who have contracts current for advertising in this journal are inserted. Enquiries in respect to goods not advertised may be addressed to "The C. & D." Information Wanted Department, 42 Cannon Street, London, E.C.

ADVERTISING AIDS
Degen, F. A.
Raphaels, Ltd.
Slack, Bernard
Smith, W. H., & Son
AER.-WATER MACHINERY
Barnett & Foster
British Automatic Aerators, Ltd.
Jackson, J. P., & Co., Ltd.
(*See also* SODA FOUNTAINS)
AER.-WATER MATERIALS
Brunner, Mond & Co.
Bush, W. J., & Co., Ltd.
Hay, William, Ltd.
Stevenson & Howell, Ltd.
(*See also* ESSENCES, SOL.)
AERATED WATERS
Burrow, W. & J. (Malvern)
Camwal, Ltd.
Idris & Co., Ltd.
Jewsbury & Brown
AGENCIES, COLONIAL, &C.
Faulding, F. H., & Co.
Lennon, Ltd.
Murdoch, John, & Co.
Peake, Allen & Co. (India)
Sankyo & Co.
Smith, W. J., & Co.

ALKALOIDS
Atkinson, G., & Co.
Boehringer, C. F., & Soehne
Boehringer, C. H., Sohn
Hoffmann-La Roche, F., & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Merck, E.
Morson, T., & Son
Smith, T. & H., Ltd.
Whiffen, Thos.
Wink, J. A., & Co.
Zimmermann, C., & Co.
AMMONIA AND ITS SALTS
Brown & Blackburn
Burt, Boulton & Haywood, Ltd.
Davy Hill & Hodgkinsons, Ltd.
Nichols Chemical Co., Ltd.
Scrubb & Co., Ltd.
White, A., & Sons
ANÆSTHETICS
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.
Zimmermann, C., & Co.
(*See also* CHLOROFORM)
ARTIFICIAL LIMBS
Haywood, J. H.

ANTIMONY AND ITS SALTS
Atkinson, G., & Co.
May & Baker, Ltd.
White, A., & Sons
ANTI-RHEUMATIC RINGS
Burge, Warren & Ridgley, Ltd.
Whitby & Co.
AUCTIONEERS
Jackson & Co.
BALLROOM-FLOOR POLISH
Lofthouse & Saltmer
Woolley, J., Sons & Co., Ltd.
BATH GLOVES
Hovenden, R., & Sons, Ltd.
Solport Bros.
BAROMETERS
Darton, F., & Co.
BATHING CAPS
Maw, S., Son & Sons
Schutze, F., & Co.
BISMUTH SALTS
Alliance Drug & Chem. Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.
Morson, T., & Son
Tyrer, T., & Co., Ltd.
White, A., & Sons

BOOKS AND MAGAZINES
Analytical Notes (Evans)
Churchill, J. & A.
Ilford "Photo Manual."
Lewis, H. K.
Martindale's "Extra Phar."
"Prescriber, The"
Scott, Greenwood & Co.
Squire's "Companion"
BOTTLES
Ayrton, Saunders & Co., Ltd.
Barnett & Foster
Beatson & Co.
Breffit, E., & Co., Ltd.
Chemists' Co-operative Wholesale
Fecher, M. J.
Isaacs & Co.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Poths, H., & Co.
Rose, Carl
Taylor, F. H., & Sons
Toogood, W., Ltd
Youldon, E., Ltd.
BORAX
Howards & Sons, Ltd.

BINOCULARS
Darton, F., & Co.
Raphaels, Ltd.

BOTANIC DRUGGISTS
Newball & Mason
Potter & Clarke, Ltd.

BOXES
Ford, Shapland & Co.
Harrison & Waide
Hertz & Co.
May, Roberts & Co.
Robinson & Sons, Ltd.
Rogers & Co.
Stipendum Stopper Co.

BROMINE AND BROMIDES
Alliance Drug & Chemical Co.
Atkinson, G., & Co.
Howards & Sons, Ltd.
Merck, E.

BRUSHES
Addis, W., & Son
Bidwell, Bidwell & Co.
Fecher, M. J.
Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Meyer-Sander Dental Supply Co.
Rigby Battcock, Ltd.
Sterkel, H. L.
Tilbury, W. R., & Co.

BUTTER COLOURING
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

CACHETS
Christy, T., & Co.

CAMOMILES
Boehm, F., Ltd.
Carmichael, F. J., & Co.

CAMPHOR
Alliance Drug & Chemical Co.
Atkinson, G., & Co.
Chemists' Co-operative Wholesale
Howards & Sons, Ltd.
May & Baker, Ltd.
Whiffen, Thos.

CAPPING MATERIALS
Viscose Co., Ltd.

CAPS FOR BOTTLES, &c.
Darter, Wilkinson & Co.
Fecher, M. J.
Reuter, R. J.
Viscose Co., Ltd. (self-fixing)

CAPSULES
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Davies, Sons & Co.
Denoual, J., & Co.
Duncan, Flockhart & Co.
Hearon, Squire & Francis, Ltd.
Lloyd, T. Howard, & Co.
Mason Bros. & Chapman
Pill, Tablet, & Capsule Alliance
Tye, J., & Son
Wand Mfg. Co.
Wander, A.
Warrick Bros.
Woolley, J., Sons & Co.

CAPSULING MACHINE
Melin, C.

CARBOLIC ACID
Alliance Drug & Chem. Co.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Chemists' Co-operative Wholesale
Hoffmann-La Roche, F., & Co.
Sanitas Co., Ltd.
(*See also* DISINFECTANTS)

CARTONS
Ford, Shapland & Co.
Harrison & Waide

CASH TILLS
British Machine Co., Ltd.
O'Brien, T.

CASTOR OIL
Boehm, F., Ltd.
Hull Oil Mfg. Co., Ltd.
Premier Oil Extract. Mills, Ltd.

CEMENTS
Kay Bros., Ltd.

CHALK, PRECIPITATED
Levermore, A., & Co.
Mumford, G. S., & Sons
Nichols Chemical Co., Ltd.
Sturge, John & E.

CHAMOIS
Cartwright, A. S., Ltd.
Cresswell Bros. & Schmitz
Internatl. Sponge Importers
Kent, G. B., & Sons, Ltd.
Solport Bros.

CAUSTIC SODA
Brunner, Mond & Co., Ltd.
United Alkali Co., Ltd.

CHEMICAL MFRS.
Atkinson, G., & Co.
Boehm, F., Ltd.
Boehringer, C. F., & Soehne
Bramwell, E., & Son
British Drug Houses, Ltd.
Brunner, Mond & Co., Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Davy Hill & Hodgkinsons
Harrington Bros., Ltd.
Howards & Sons, Ltd.
Knoll & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Merck, E.
Morson, T., & Son
Reitmeyer & Co.
Schimmel & Co.
Smith, B. A., & Co.
Smith, T. & H., Ltd.
Sthamer, Dr. Richard
Sturge, John & E.
Tyrer, T., & Co., Ltd.
Washington Chemical Co.
Whiffen, Thos.
White, A., & Sons
Wink, J. A., & Co.
Zimmermann, C., & Co.

CHEMISTS, MFG.
Allen, Stafford, & Sons, Ltd.
Anglo-American Pharm. Co., Ltd.
Beetham, M., & Son
Bell, John, & Co.
Blackie, R.
British Drug Houses, Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Bush, W. J., & Co., Ltd.
Curling, G. Wyman, & Co.
Davenport, J. T., Ltd.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd
Fletcher, Fletcher & Co.
Hay, William, Ltd.
Hewlett, C. J., & Son
Kutnow, S., & Co., Ltd.
Lorimer & Co., Ltd.
Mandall & Co., Ltd.
Martindale, W.
Newball & Mason
Newbery, F., & Sons, Ltd.
Oldfield, Pattinson & Co.
Oppenheimer, Son & Co.
Owbridge, W. T., Ltd.
Parke, Davis & Co.
Potter & Clarke
Randall & Son, Ltd.
Ransom, W., & Son
Reitmeyer & Co.
Sankyo & Co.
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stevenson & Howell, Ltd.
Thompson & Capper
Wand Mfg. Co.
Woolleys, Ltd.
(*See also* WHOLESALE)

CHEST PROTECTORS
Schutze, F., & Co.
Solport Bros.
Wood, Vincent

CHLORIDE OF LIME
Brunner, Mond & Co., Ltd.

CHLOROFORM
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Morson, T., & Son
Smith, T. & H., Ltd.

CIGARS AND CIGARETTES
Hovenden, R., & Sons, Ltd.
Singleton & Cole, Ltd.

CITRIC ACID AND CITRATES
Davy Hill & Hodgkinsons, Ltd
Howards & Sons, Ltd.
Lloyd, T. H., & Co.
Morson, T., & Son
Sturge, John & E.

CLINICAL THERMOMETERS
Burge, Warren & Ridgley, Ltd.
Darton, F., & Co.
Hicks, J. J.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Rose, Carl
Zeal, G. H.

COCOA
Cadbury Bros., Ltd.
Frame Food Co.
International Plasmon, Ltd.
Oppenheimer, Son & Co., Ltd.

CORKS
Mitchell, N. W., & Sons, Ltd.

CLOTH BALLS
Senier, A., & Co.

COAL TAR SPECIALITIES
Wright, Layman & Umney, Ltd.

COD-LIVER OIL
Albrethson, A., & Co.
Allen & Hanburys, Ltd.
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.
Davy Hill & Hodgkinsons, Ltd.
Devold, Peder
Evans Sons Lescher & Webb, Ltd.
Hearon, Squire & Francis, Ltd.
Lloyd, T. Howard, & Co.
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

COLOURS, BEVERAGE, ETC.
Cresp-Martinenq
Stevenson & Howell, Ltd.
(*See also* DAIRY ADJUNCTS)

COMBS
Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Sangers'

COUNTER ADJUNCTS
Evans Sons Lescher & Webb, Ltd.

COUNTER SPECIALITIES
Allen & Hanburys, Ltd.
Davy Hill & Hodgkinsons, Ltd.
Hewlett, C. J., & Son
Newbery, F., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Woolleys, Ltd.

CREAM OF TARTAR
Davy Hill & Hodgkinsons, Ltd.

CREOSOTE
Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood
Morson, T., & Son

CYANIDES
May & Baker, Ltd.

DAIRY ADJUNCTS
Benger's Food, Ltd.
Fullwood, R. J., & Bland
Tomlinson & Hayward, Ltd.

DEAFNESS AIDS
Hawksley, T.

DENTAL MATERIALS
Edwards, W. & Co., Ltd.

DENTAL MECHANICS
Fentiman, A. G.
Fentiman, A. J., & Co.
Halder, E. C.
Wardale & Co.

DENTIFRICES
Anglo-American Dentifrice Co.
Beecham, T.
Beiersdorf, P., & Co.
Bell, John, & Co.
Blackie, R.
Burroughs Wellcome & Co.
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Euceryl, Ltd.
Jewsbury & Brown
Lambert Pharmacal Co.
McKesson & Robbins
Maw, S., Son & Sons
Meyer-Sander Dental Supply Co.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Parke, Davis & Co.
Sanitas Co., Ltd.
Sozodont (Richards)
Standard Tablet & Pill Co.
Woods, W., & Son

DIABETIC BREAD AND FOOD
Callard & Co.
Van Abbott, G., & Sons

DISINFECTANTS
Baiss Bros. & Stevenson, Ltd.
Burgoyne, Burbidges & Co.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Condy & Mitchell, Ltd.
Dalmas, A. de St., & Co.
Edwards, W., & Son
Jervell & Co., Ltd.
Jeyes' Sanitary Compounds, Ltd.
Kay Bros., Ltd.
Lambert Pharmacal Co.
McDougall Bros.
Rowan, A., & Brother
Sanitas Co., Ltd.
Standardised Disinfectants Co., Ltd.
Tomlinson & Hayward, Ltd.
Tugwood & Wilton
Willows, Francis B. & T.
Wright, Layman & Umney, Ltd
Zimmermann, C., & Co.

DIGESTIVE PRODUCTS
Armour & Co., Ltd.
Benger's Food, Ltd.
Fairchild Bros. & Foster
Parke, Davis & Co.
Reitmeyer & Co.
Squire & Sons
Zimmermann, C., & Co.

DOG BISCUITS AND PREPS.
Spratt's Patent, Ltd.

DRUGGISTS' SUNDRIES
Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley
Burgoyne, Burbidges & Co.
Chemists' Co-operative Wholesale
Christy, T., & Co.
Cook, Alfred, & Co.
Curling, G. Wyman, & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb
Fecher, M. J.
Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd.
Improved Mailing-case Co.
Ingram, J. G., & Son
Johnsen & Jorgensen, Ltd.
Lennon, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Murdoch, John, & Co.
Newbery, F., & Sons, Ltd.
Poths, H., & Co.
Quelch, H. C., & Co.
Reuter, R. J.
Sangers'
Schutze, F., & Co.
Seabury & Johnson
Solport Bros.
Southall Bros. & Barclay, Ltd.
Sterkel, H. L.
Tidman & Son, Ltd.
Toogood, W., Ltd.
Viscose Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co.

DRUGS, CRUDE
Curling, G. Wyman, & Co.
Potter & Clarke, Ltd.
Ransom, W., & Son

DYES
Judson, D., & Son
Whitaker & Co.

EAU DE COLOGNE
Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Courtenay & Co.
McCracken, J. & R.
Reuter, R. J.
Schutze, F., & Co.
Van Oppen, Ross & Co.

EDUCATIONAL INSTITUTIONS
Bath and West of Engalnd College of Pharmacy
Birmingham and Midland College of Pharmacy
City of London College
Glasgow School of Pharmacy
Leeds College of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
Manchester College of Pharmacy
Muter's (So. Lond.) School of Pharmacy
North of England School of Pharmacy
Northern College of Pharmacy
Pelman School of Memory
School of Pharmacy
South of England College of Pharmacy
Westminster College of Pharmacy

EMULSIONS, COD-LIVER OIL, ETC.
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, R.
Boulton, J., & Co.
Burgoyne, Burbidges & Co.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Harker, Stagg & Morgan, Ltd.
Hearon, Squire & Francis, Ltd.
Lorimer & Co., Ltd.
Oldfield, Pattinson & Co.
Parke, Davis & Co.
Woolleys, Ltd.

ESSENCES, CONCRETE
Lautier Fils
Murray, O., & Co., Ltd.
Roure-Bertrand fils

EFFERVESCENT PREPS
Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Blackie, R.
Bristol-Myers Co.
Cox, A. H., & Co., Ltd.
Davy Hill & Hodgkinsons
Goodall, Backhouse & Co.
Knnow, S., & Co., Ltd.
Lloyd, T. Howard, & Co.
Lorimer & Co., Ltd.
Martindale, W.
Newhall & Mason
Parke, Davis & Co.
Potter & Clarke
Shirley Bros.
Standard Tablet & Pill Co.
Sturge, John & E.
Tidman & Son, Ltd.
Tyrer, T., & Co., Ltd.
Wand Mfg. Co.
Wright, Layman & Umney

ELASTIC HOSIERY
Ayrton, Saunders & Co., Ltd.
Berliner, Arthur
Haywood, J. H.
Jackson, Röhrs, & Co.
Maw, S., Son & Sons
Wood, Vincent

EMERY AND CLOTH
Oakey, J., & Sons, Ltd.

ENEMAS
Armstrong, M. D.
Bailey, W. H., & Son
Baird Bros.
Burge, Warren & Ridgley
Davol Rubber Co.
Ingram, J. G., & Son
Maw, S., Son & Sons
Toogood, W., Ltd.
Warne, W., & Co., Ltd.

EPSOM SALTS
Howards & Sons, Ltd.

ESSENCES, SOL. AND FRUIT
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.
Barnett & Foster
Bush, W. J., & Co., Ltd.
Cresp-Martinenq
Evans Sons Lescher & Webb
Hay, Wm., Ltd.
London Essence Co.
Lorimer & Co., Ltd.
Newball & Mason
Roure-Bertrand fils
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Whittaker, A.

ETHERS
Baiss Bros. & Stevenson, Ltd.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Smith, B. A., & Co.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.

ETHYL CHLORIDE
Duncan, Flockhart & Co.

EXTRACT OF HERBS
Newhall & Mason
Potter & Clarke

EXTRACTS (MEDICINAL)
Allen, Stafford, & Sons, Ltd.
Chemists' Co-operative Wholesale
Hewlett, C. J., & Son
Ransom, W., & Son
(*See also* WHOLESALE DRUGGISTS)

FEEDING BOTTLES
Breffit, E., & Co., Ltd.
Fecher, M. J.
Hovenden, R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Reuter, R. J.
Sangers'
Southall Bros. & Barclay, Ltd.

FERTILIZERS
With's Chemical Manure Co.

FILLING MACHINES
Roberts' Pat. Fill. Machine Co.

FOODS, SPECIAL
Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd
Benger's Food, Ltd.
Brand & Co., Ltd.
Callard & Co.
Fairchild Bros. & Foster
Frame Food Co., Ltd.
International Plasmon, Ltd
Lemco, Ltd.
Menley & James, Ltd
Natural Food Co., Ltd.
Sanatogen Co.
Wander, A.

FILTERS (WATER)
Berkefeld Filter Co., Ltd.

FLY CATCHERS
Smith, J. H., & Co.
Strong, Christy

FOODS, INFANTS'
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Davy Hill & Hodgkinsons
Frame Food Co., Ltd.
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows, Francis B. & T.

FORMALDEHYDE
Andesol Works
Burt, Boulton & Haywood
Tugwood & Wilton

FULLER'S EARTH
Mumford, G. S., & Sons

FUMIGATORS
Sanitas Co., Ltd.

GELATIN AND GLUE
Boehm, F., Ltd.

GLAUBER'S SALT
Bramwell, E., & Son
Howards & Sons, Ltd.
Nichols Chemical Co., Ltd.

GLYCERIN
Alliance Drug & Chem. Co.
Boehm, F., Ltd.
Price's Patent Candle Co.

GOLD PAINT
Judson, D., & Son

GRINDERS
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis B. & T.

GUMS
Fink, F., & Co.

HAIR PREPARATIONS
Capsuloid Co., Ltd.
Daisy, Ltd.
Edwards' "Harlene" Co.
Harker, Stagg & Morgan
"Nyto" Co.
Robare's Anreoline
Rowland, A., & Sons
Woolleys, Ltd.

HERBS
Potter & Clarke
United Drug Co.

HOMŒOPATHIC MEDICINES
Ashton & Parsons, Ltd
Epps, J., & Co., Ltd.
Keene & Ashwell, Ltd.
Leath & Ross

HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Dunlop Rubber Co., Ltd.
Fulham Pottery & Cheavin Filter Co., Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Schutze, F., & Co.
Southall Bros. & Barclay
Wood, Vincent

HAT DYES
Whitaker & Co.

HOTELS
Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.

INHALERS
Christy, T., & Co.
Fecher, M. J.
Sanitas Co., Ltd.

INK
Bewley & Draper, Ltd.
Hickisson, A. B.

INSECT POWDER
Boehm, F., Ltd.
Shirley Bros., Ltd.
Smith, B. A., & Co.

INSECTICIDES
Acme Chemical Co., Ltd.
Corry & Co., Ltd.
Smith, B. A., & Co.
Tomlinson & Hayward, Ltd.
Woolleys, Ltd.

IODINE AND IODIDES
Atkinson, G., & Co.
Howards & Sons, Ltd.
Merck, E.
Morson, T., & Son
Whiffen, Thos.
Wink, J. A., & Co.

NITROSYL
Fletcher, Fletcher & Co.

JARS AND POTS
Breffit, E., & Co., Ltd.
Cook, A., & Co.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Potts, H., & Co.
Reuter, R. J.
Stipendum Stopper Co.
Toogood, W., Ltd.

LACTOBACIL. EDUCTS
Wilcox, Jozean & Co.

LAMPS, DISINFECTING
McDougall Bros.

LANOLINE
Burroughs Wellcome & Co.
Christy, T., & Co.
Sangers'

LANTERNS
Butcher, W., & Sons
Reynolds & Branson, Ltd.

LARD
Chemists' Co-operative Wholesale
Ewen, J., & Sons

LEATHERS
Solport Bros.

LIME JUICE AND CORDIAL
Evans Sons Lescher & Webb
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, ETC.
Allen, Stafford, & Sons
Alliance Drug & Chem. Co.
Mumford, G. S., & Sons

LIQUORICE JUICE
Alliance Drug & Chem. Co.
Boehm, F., Ltd.
Burgoyne, Burbidges & Co.
Evans, Gray & Hood
Evans Sons Lescher & Webb, Ltd.
Hearon, Squire & Francis
Jackson, E. E.
Mumford, G. S., & Sons

LIQUORS, CONC., ETC.
Allen, Stafford, & Sons, Ltd.
Fletcher, Fletcher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.

LITHIA SALTS
Davy Hill & Hodgkinsons
May & Baker, Ltd.
Merck, E.

LOOFAHS
Cresswell Bros. & Schmitz

LOZENGES
Allen & Hanburys, Ltd.
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Guest, T., & Co.
Jackson, E. E.
Potter & Clarke
Raimes & Co.
Shirley Bros., Ltd.
Warrick Bros.

MAGNESIA AND ITS SALTS
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Washington Chemical Co.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Brown & Son
Fecher, M. J.
Gardner, Wm., & Sons, Ltd.
"Hercules" Meat Juice Press
Pindar, J. W., & Co.
Roberts' Patent Filling Machine Co.
Smith, B. A., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MALT EXTRACT AND PREPS
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, R.
British Dia Malt Co.
Burroughs Wellcome & Co.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb
Hearon, Squire & Francis
Hewlett, C. J., & Son
Lorimer & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Squire & Sons
Wright, Layman & Umney

MARKING INK
Hickisson, A. (Bond's)
Hooper, W., & Co.

MEAT EXTRACT
Armour & Co., Ltd.
Brand & Co., Ltd.

MEASURES
Taylor, F. H., & Sons

MEDICINE CHESTS
Burroughs Wellcome & Co.
Keene & Ashwell, Ltd.
Leath & Ross
Lloyd, T. Howard., & Co.
Parke, Davis & Co.

MENTHOL CONES
Maw, S., Son & Sons
Shirley Bros., Ltd.

MERCURIALS
Atkinson, G., & Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.
Whiffen, Thos.
Wink, J. A., & Co.

METHYLATED SPIRITS
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MILK APPARATUS
Hawksley, T.
Zimmermann, C., & Co.

MILK SUGAR
Hollandsche M. S. Fabriek

MINERAL WATERS & SALTS
Apollinaris Co., Ltd.
Burrow, W. & J. (Malvern)
Davy Hill & Hodgkinsons, Ltd
Findlater & Co.
Hughes, E. Griffiths
Ingram & Royle, Ltd.
Parke, Davis & Co.
Vichy (State Springs)
Vitaregis Hygienic Co.

NAPHTHAS
Burt, Boulton & Haywood

NEBULIZERS
(*See* SPRAYS)

OILS, ESSENTIAL
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chem. Co.
Atkinson, G., & Co.
Baiss Bros. & Stevenson
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Cresp-Martinenq
Evans Sons Lescher & Webb
Jakson, J., & Co.
Lautier Fils
London Essence Co.
Ransom, W., & Son
Roure-Bertrand-fils
Schimmel & Co.
Spencer, J., Son & Co.
Spurway et Cie.
Stevenson & Howell, Ltd.
Todd, A. M., Co.
Whiffen, Thos.
Whittaker, A.
Wink, J. A., & Co.
Wright, Layman & Umney

OINTMENTS
Blackie, R.
Chemists' Co-operative Wholesale
Curling, G. Wyman, & Co.
Oldfield, Pattinson & Co.

OILS, FATTY, ETC.
Allen, Stafford & Sons, Ltd.
Atkinson, G., & Co.
Carmichael, F. J., & Co.
Cresp-Martinenq
Lantier Fils
Price's Patent Candle Co
Smith, B. A., & Co.

OILS, MINERAL
Carmichael, F. J., & Co.
Price's Patent Candle Co
Wright, Layman & Umney

OPTICAL GOODS
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd
Nitsche & Günther
Raphael's, Ltd.

OPTICAL INSTRUCTION
British Optical Institute
Lionel Laurance

PERFUME MATERIALS
Buisson Frères, *see* Bush
Bush, W. J., & Co., Ltd
Chiris, Antoine
Compagnie Morana
Cresp-Martinenq
Haliflor Co.
Lautier Fils
Murray, O., & Co., Ltd.
Schimmel & Co.
Shipkoff & Co.
Spencer, J., Son & Co.
Spurway et Cie.
Treatt, R. C., & Co.
Zimmermann, C., & Co.

PACKED GOODS
(*See* Wholesale)

PALATINOIDS
Oppenheimer, Sons & Co.

PASTILLES
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Baiss Bros. & Stevenson
Burroughs Wellcome & Co.
Denoual, J., & Co.
Epps, J., & Co., Ltd.
Evans Sons Lescher & Webb
Guest, T., & Co.
Warrick Bros.

PATENT AGENT
Barker, R. W.

PERFUMES
Allen & Hanburys, Ltd.
Barclay & Sons, Ltd.
Breidenbach & Co.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Charles, W. F.
Christy, T., & Co.
Chuit, Naef & Co.
Cresp-Martinenq
Crown Perfumery Co.
Evans Sons Lescher & Webb,Ltd
Haliflor Co.
Hearon, Squire & Francis
Hertz & Co.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
Lescol Perfumery Co.
McCracken, J. & R.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Quelch, H. C., & Co.
Renter, R. J.
Shirley Bros.
Southall Bros. & Barclay
Spencer, J., Son & Co.
Spurway et Cie.
To-Kalon Mfg. Co.
Warrick Bros.
West, T.

PESSARIES
Burge, Warren & Ridgley
Rendell, W. J. (Quin.)

PETROLEUM JELLY
Chesebrough Mfg. Co.

PHOTO. CHEMICALS
Boehringer, C. F., & Soehne
Burroughs Wellcome & Co.
Lockyer, J. E.
Merck, E.

PHOTO. GOODS
Barclay & Sons, Ltd.
Butcher, W., & Son, Ltd.
Darton, F., & Co.
Evans Sons Lescher & Webb
Ilford, Ltd.
Lennon, Ltd.
May, Roberts & Co.
Murdoch, John, & Co.
Newbery, F., & Sons, Ltd.
Reynolds & Branson, Ltd.

PHOTO. WORK
Express Developing Co.

PILL MAKERS
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb,Ltd
Hearon, Squire & Francis
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Pill, Tablet, & Capsule Alliance
Southall Bros. & Barclay
Standard Tablet & Pill Co.
Wand Mfg. Co.
Warner, W. R., & Co.
Woolley, J., Sons & Co., Ltd.

PLASTERS
Allcock Mnfg. Co.
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmas, A. de St., & Co.
Leslies, Ltd.
Maw, S., Son & Sons
Seabury & Johnson
Solport Bros.

POLISHES (VARIOUS)
Bradley & Bourdas
Kay Bros., Ltd.
Oakey, J., & Son, Ltd.

PRINTERS
Ford, Shapland & Co.
Harrison & Waide
Smith, W. H., & Son
Townsend, J., & Sons

PRESERVATIVES
(*See* Dairy Adjuncts)

PROPRIETARY ARTICLES
Anglo-American Drug Co.
Anglo-American Pharmaceutical Co., Ltd.
Arfie, Ltd.
Ashton & Parsons, Ltd.
Beecham, T.
Beiersdorf, P., & Co.
Bile Bean Mfg. Co.
Bow's, Dr., Liniment
Box, W. H.
Capsuloid Co., Ltd.
Chameleon Oil Co.
Chesebrough Mfg. Co.
Christy, T., & Co.
Coleman & Co., Ltd.
Congreve, G. T.
Cox, A. H., & Co., Ltd.
Curry, Henry
D.D.D. Company
Daggett & Ramsdell
Daisy, Ltd.
Davenport, J. T., Ltd.
Davidson & Co.
Day & Sons (Crewe), Ltd.
Day, Son & Hewitt
Denoual, J., & Co.
Elliman, Sons & Co.
Fassett & Johnson
Faulding, F. H., & Co.
Fellows' Syrup
Fennings, Alfred
Ferris & Co.
Fulford, C. E., Ltd.
Genin, L., & Co.
Goodall, Backhouse & Co.
Grapelax, Ltd.
Greeff, R. W., & Co.
Guy's Tonic Co.
Henry, T. & W.
Hughes, E. Griffiths
Ichthyol Co.
Iron-Ox Rem. Co., Ltd.
Kaufmann, Dr.
Kay Bros., Ltd.
Knoll & Co.
Kutnow, S., & Co., Ltd.
Lalor's, Dr., Phosphodyne
Lambert Pharmacal Co.
Lincoln & Mid. Co. Drug Co
Lofthouse & Saltmer
Lorimer & Co., Ltd.
Mandall & Co., Ltd.
Menley & James, Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Outem Corn Remedy Co.
Owbridge, W. T., Ltd.
Phillips, Chas. H., Chemical Co
Pollantin (Schimmel & Co.)
Red "C" Cough Cure Co.
Resinol Chemical Co.
Richards, J. M., & Sons
Rubwel Co.
Sanatogen Co.
Sangers'
Savaresse's Capsules (Evans)
Schimmel & Co. (Pollantin)
Squire & Sons
Standard Tablet & Pill Co.
Stedman's Teething Powders
Thermogene Co.
Thompson & Capper
To-Kalon Mfg. Co.
Tunbridge & Wright
Wilcox, Jozeau & Co.
Wood's Peppermint Cure
Zotos, Ltd.
(*See also* Dentifrices and Toilet Articles)

PROP. ARTS., DEALERS IN
Barclay & Sons, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb,Ltd
Hovenden, R., & Sons, Ltd.
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Sangers'

PULVELLÆ
Warrick Bros.

PULVERETTES
Oppenheimer, Son & Co., Ltd.

PUMPS
Berkefeld Filter Co., Ltd.

QUININE AND SALTS
Boehringer, C. F., & Soehne
Carmichael, F. J., & Co.
Howards & Sons, Ltd.
Whiffen, Thos.

RAZORS
Auto-Strop Safety Razor Co.

RENNET
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

RESINS AND RESINOIDS
Allen, S., & Sons, Ltd.
Allen & Hanburys, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. & H., Ltd.

RESPIRATORS
Zimmer & Co.

RUBBER GOODS
Baird Bros.
Burge, Warren & Ridgley, Ltd.
Davol Rubber Co.
Evans Sons Lescher & Webb,Ltd
Feeher, M. J.
Galen Mfg. Co.
Haywood, J. H.
Hovenden, R., & Sons, Ltd.
Ingram, J. G., & Son
Markt & Co. (London), Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Schutze, F., & Co.
Warne, W., & Co., Ltd.

SACCHARIN
Saccharin Corporation, Ltd.

SALICIN
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.

SAMPLE CASES
Improved Mailing-case Co.
Keane, Thomas

SANTONIN
Smith, B. A., & Co.

SAPONIN
Field, C. W.
Hoffman-La Roche, F., & Co.
Sthamer, Dr. R.

SAUCES
Goodall, Backhouse & Co.

SCALE PREPARATIONS
Morson, T., & Son

SEA SALT
Tidman & Son, Ltd.

SELTZOGENES
Aerators, Ltd.

SERUMS AND ANTITOXINS
Allen & Hanburys, Ltd.
Evans Sons Lescher & Webb
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.

SHEEP DIPS
Acme Chemical Co., Ltd.
Burt, Boulton & Haywood
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.

SHOP-FITTING
Ayrton-Graham, Ltd.
Bowling & Son
Cleworth, J.
Evans Sons Lescher & Webb,Ltd.
Josephs, P., & Son
Maw, S., Son & Sons
Mills, H.
Rudduck & Co.
Sangers'
Southall Bros. & Barclay, Ltd.

SOAP MATERIALS
Chiris, Antoine

SOAPS
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Breidenbach & Co.
Bronnley, H., & Co., Ltd.
Chesebrough Mfg. Co.
Cook, E., & Co., Ltd.
Crown Perfumery Co.
Gibbs, D. & W., Ltd.
Hull Oil Mfg. Co., Ltd.
Lescol Perfumery Co.
Oakey, J., & Son, Ltd.
Pears, A. & F., Ltd.
Price's Patent Candle Co.
Richards, J. M., & Sons
Wright, Layman & Umney

SOAPS, MEDICATED
Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Capsuloid Co.
Faulding, F. H., & Co.
Hearon, Squire & Francis, Ltd
Lambert Pharm. Co.
Sanitas Co., Ltd.
Wright, Layman & Umney

SODA FOUNTAINS
British Automatic Aerators,Ltd.
Jackson, J. P., & Co., Ltd.

SODIUM BICARBONATE
Brunner, Mond & Co., Ltd.
Howards & Sons, Ltd.
Mumford, G. S.

SOOTHERS
Armstrong, M. D.
Cartwright, A. S., Ltd.

SOUTH AFRICAN AGENTS
Lennon, Ltd.
Murdoch, John & Co.

SPARKLETS
Aerators, Ltd.

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Günther
Raphael's, Ltd.

SPIRIT OF WINE
Burrough, J., Ltd.
Preston's Liverpool Distillery

SPITTING-FLASKS
Maw, S., Son & Sons

SPONGE BAGS
Maw, S., Son & Sons
Toogood, W., Ltd.

SPONGES
Cresswell Bros. & Schmitz
Internl. Sponge Importers
Kent, G. B., & Sons, Ltd.
Markt & Co. (London), Ltd.
Maw, S., Son & Sons
Sangers'

SPONGIO-PILINE
Whitehead, R. R., & Bros.

SPRAYS
Burge, Warren & Ridgley, Ltd.
Cook, Alfred, & Co.
Davol Rubber Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Parke, Davis & Co.
Wetmore, S. H., Co.

SURGICAL APPLIANCES
Allen & Hanburys, Ltd.
Bailey, W. H., & Son
Burroughs Wellcome & Co.
Curling, G. Wyman, & Co.
Ingram, J. G., & Son
Mason Bros. & Chapman
Maw, S., Son & Sons
Offord Hygienic Truss Co.
Schutze, F., & Co.
Wood, Vincent
Warne, W., & Co., Ltd.

SURGICAL DRESSINGS
Baird Bros.
Beiersdorf, P., & Co.
Berliner, Arthur
Burroughs Wellcome & Co.
Curling, G. Wyman, & Co.
Dalmas, A. de St., & Co.
Galen Mfg. Co., Ltd.
Gimber, W.
Haynes, G., & Co.
Jackson, Röhrs, & Co.
Leslies, Ltd.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Maw, S., Son & Sons
Newsome, C.
Robinson & Sons, Ltd.
Seabury & Johnson
Southall Bros. & Barclay
Vernon & Co., Ltd.
Wood, Vincent.
Woolley, J., Sons & Co., Ltd.

STARCH
Mumford, G. S., & Sons

STOPPERS
Fletcher, Fletcher & Co.
Stipendum Stopper Co.

STOVES (HEATING)
Clark, S., & Co.

SYNTHETIC PERFUMES
Boehringer, C. F., & Soehne
Bush, W. J., & Co., Ltd.
Chuit, Naef & Co.
Compagnie Morana
Murray, O., & Co., Ltd.

SYNTHETIC REMEDIES
Boehringer, C. H., Sohn
Boehringer, C. F., & Soehne
Hoffman-La Roche, F., & Co.
Knoll & Co.

SYPHONS, S. W.
Aerators, Ltd.
Barnett & Foster
Breffit, E., & Co., Ltd.
Camwal, Ltd.
Idris & Co., Ltd.

SYRUPS, FRUIT
Idris & Co., Ltd.

SYRUPS, MEDICINAL
Chemists' Co-operative Wholesale
Fellows' Med. Mfg. Co.
Fletcher, Fletober & Co.
Squire & Sons

TABLETS, COMPRESSED
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Bisbop, Alfred, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb
Hearon, Squire & Francis
Jackson, E. E.
Lloyd, T. Howard, & Co.
Martindale, W.
McKesson & Robbins
Parke, Davis & Co.
Pill, Tablet, & Capsule Alliance
Potter & Clarke
Standard Tablet & Pill Co.
Thompson & Capper
Wand Manufacturing Co.
Warner, W. R. (Newbery)

TABLOID PRODUCTS
Burrongbs Wellcome & Co.

TARTARIC ACID
Boehringer, C. H., Sohn
Day Hill & Hodgkinsons

TEA
Genin, L., & Co.

TIN BOX MAKERS
Goodall, Backhonse & Co.
Huntley, Boorne & Stevens
Shirley Bros., Ltd.

TOBACCO
Singleton & Cole, Ltd.

TOILET ARTICLES
Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Auto-Strop Safety Razor Co.
Ayrton, Saunders & Co., Ltd.
Beetham, M., & Son
Berliner, Arthur
Blackie, R.
Boulton, J., & Co.
Breidenbach & Co.
Bronnley, H., & Co., Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Chesebrough Mfg. Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Daggett & Ramsdell
Daisy, Ltd.
Edwards' Harlene Co.
Eucryl, Ltd.
Gibbs, D. & W., Ltd.
Haliflor Co.
Hall, Forster & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hovenden, R., & Sons, Ltd.
Hygienic Co., Ltd.
Lloyd, A., & Co.
Lloyd, A. S. (Hovenden)
Lorimer & Co., Ltd.
Newbery, F., & Sons, Ltd.
Odol Cbemical Works
Papier Pondré, Ltd.
Parke, Davis & Co.
Quelch, H. C., & Co.
Richards, J. M., & Sons, Ltd.
Rowland, A., & Sons
Sangers'
Sanitas Co., Ltd.
Shirley Bros., Ltd.
Standard Tablet & Pill Co.
To-Kalon Mnfg. Co.
Toogood, W., Ltd.
Woolley, J., Sons & Co., Ltd.

TOOTH STOPPING
Stevens, P. A.

TOILET PAPER
Ford, Sbapland & Co.
Newbery, F., & Sons, Ltd.
Townsend, J., & Sons

TRADE-MARKS AGENTS
Barker, R. W.
Ford, Shapland & Co.

TRUSSES
Bailey, W. H., & Son
Haywood, J. H.
Offord Hygienic Truss Co.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

TUBED SPECIALITIES
Christy, T., & Co.
Sangers'

TUBES, COLLAPSIBLE
Brooks, Peel & Co.

TYPEWRITERS
Remington Typewriter Co.

VACCINES
Allen & Hanburys, Ltd.
Evans Sons Lescher & Webb

VALUERS
Alexander, H. P.
Baker, P. C.
Berdoe & Fisb
Brett & Co.
Jackson & Co.
Orridge & Co.
Tomlinson, T., & Son

VASELINE
Chesebrough Mfg. Co.

VERMIN-KILLERS
Danysz Virus, Ltd.
Evans Sons Lescher & Webb, Ltd.
Farmer, F., & Co.
Harker, Stagg & Morgan
Kay Bros., Ltd.
Sanford & Son

VETERINARY MEDICINES
Chesebrough Mfg. Co.
Day, Son & Hewitt
Edwards, W., & Son
Elliman, Sons & Co.
Harvey & Co., Ltd.
Lloyd, T. H., & Co.
Spratt's Patent, Ltd.
Tomlinson & Hayward, Ltd.
Walker, Troke & Co.
Wand Mfg. Co.
Wilson Vet. Mnfg. Co.

VINEGAR
Grimble & Co.

WATER GLASS
Tomlinson & Hayward, Ltd.

WATERS, CONCENTRATED
Chemists' Co-operative Wholesale
Robinson, B., & Co., Ltd.
Spurway et Cie.

WAXES
Fink, F., & Co.

WEED-KILLERS
Acme Chemical Co., Ltd.
Burt, Boulton & Haywood
Tomlinson & Hayward

WHOLESALE DRUGGISTS
Allen & Hanburys, Ltd.
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.
Bell, John, & Co.
Blackie, R.
British Drug Honses, Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Chemists' Co-op. Wholesale
Curling, G. Wyman, & Co.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb
Ferris & Co.
Goodall, Backhonse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett, C. J., & Son
Lennon, Ltd.
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Murdoch, John, & Co.
Oldfield, Pattinson & Co.
Potter & Clarke
Raimes & Co.
Sankyo & Co.
Southall Bros. & Barclay
Warner, W. R. (Newbery)
Willows, Francis B. & T.
Woolley, J., Sons & Co.
Woolleys, Ltd.
Wrigbt, Layman & Umney

WINES
Burrough, J., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

WINES, MEDICATED
Burrough, J., Ltd.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co., Ltd

WORM CAKES
Cox, A. H., & Co., Ltd.

ZINC OXIDE
Baiss Bros. & Stevenson
Hubbuck, T., & Son, Ltd.

OLDFIELD, PATTINSON & Co.

TELEGRAMS:
"OPIUM, MANCHESTER."

A RELIABLE HOUSE FOR
All Pharmaceutical Preparations.
CONCENTRATED WATERS.
CONCENTRATED INFUSIONS.

Syr. Hypophosphites Co. (NEWTON)
ELIXIR TERPINI ET HEROIN COMP.
THYMOLYPTOL.

Syr. Glycerophosph. Co.
LIQUID EXTRACTS.
LEVIGATED OINTMENTS.
ESSENTIAL OILS.

"Silver Churn" Dairy Specialities.

Special Prices to Large Buyers. Write for List.

MANCHESTER.

Two Good Lines.

Fig. 58. Actual 3*d*. size.

White Fuller's Earth.

Fig. 58.—Handsome gold and coloured lithographic labels; round cases, one end pull off, other end dredger.

6d. size	... ...	per doz.	**3/6**	**3/-** net.
3d. ,,	... ...	,,	**2/4**	**2/-** ,,

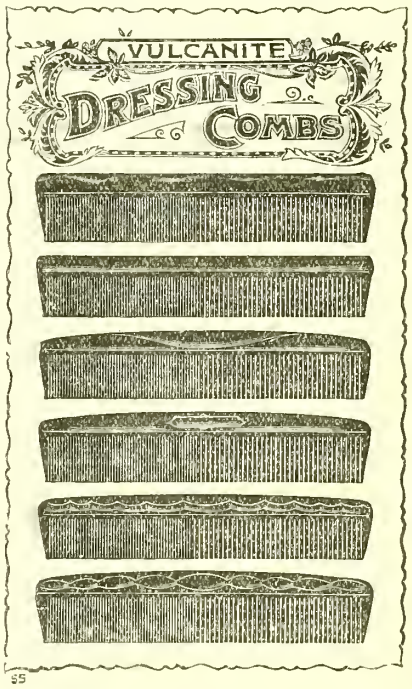
3 doz. **6d.**, or **6** doz. **3d.**, with customer's name on labels if required.

Vulcanite Dressing Combs.

F. VULCANITE.

½-doz. assorted patterns, 7 × 1¼ in.

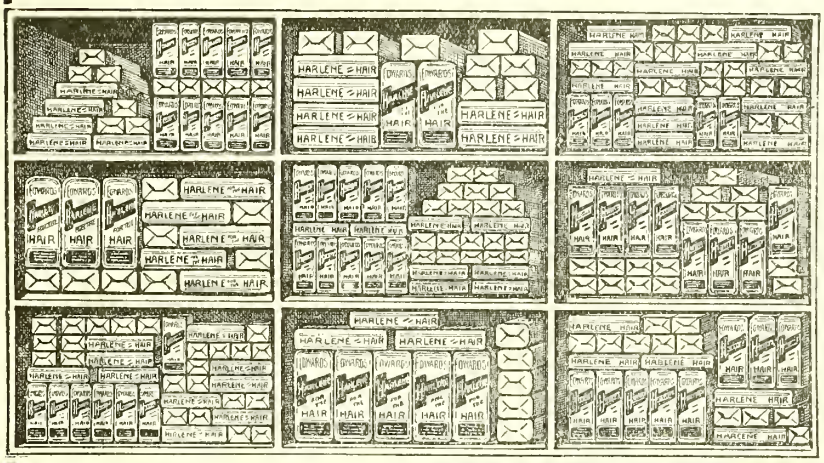
Per doz., **3/6**. **3/-** net.



Card F.

Sangers 258 EUSTON ROAD, LONDON, N.W.

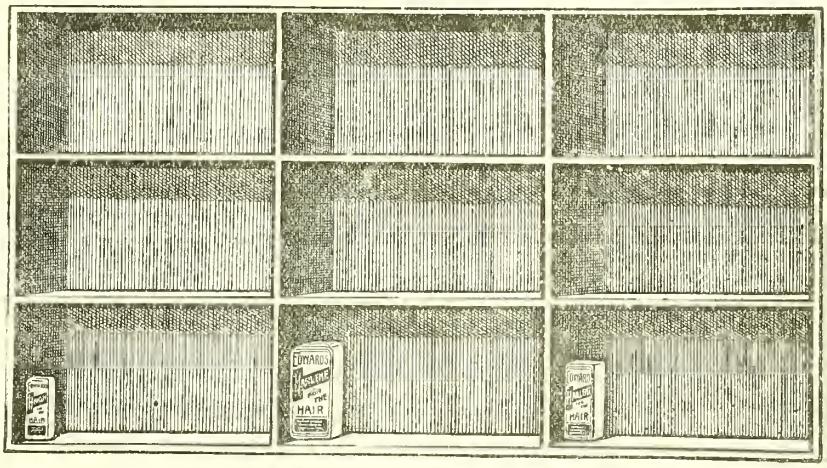
A COMPARISON



Average Up-to-date Chemist's Stock of Harlene at the Beginning of the Month!

The Stock held after One Month's Sales!

Time for ordering fresh Parcels!!



IT IS FOR YOU TO DECIDE

Whether you prefer to stock an article with a ready sale or one that occupies your shelves for months.

"HARLENE HAIR DRILL"

PRODUCTIONS have the largest and quickest sale of any Hair Preparations.

"HARLENE."
For the Hair.

	Retail.	Wholesale.
No. 1 size	1/-	11/- doz.
" 2 "	2/6	27/3 "
" 3 "	4/6	47/- "

"UZON."
Brilliantine.

Retail.	Wholesale.
1/-	11/- doz.
2/6	27/3 "

"CREMEX."
Shampoo Powders.

Retail.	Wholesale.
1/-	11/- doz.

Per box of 8 powders.

SPECIAL.—Full discount of 20% off trade prices to all buyers of £2 (net), cash with order. Carriage paid.

We are prepared to supply goods to the value of £2 (net), cash with order, as a trial stock. With this we will include good supply of costly dummies, showcards, etc., for exhibition, to assist the sales. This £2 parcel may be assorted according to customer's wishes, and is subject to full trade discount of 20%.

Fully illustrated price list, quoting all productions, sent post free on application to

EDWARDS' HARLENE CO., 95 & 96 High Holborn, LONDON, W.C.

Eucryl Tooth Powder.

—TO RETAIL AT 6d. PER TIN.—

On the P.A.T.A. List.

Special Bonus Offer in return for Counter Displays.

"One dozen 6d. Tins extra, free of charge, with all opening orders of 3 dozen, and with all repeat Orders of 6 dozen Tins, at 3/6 per dozen net, carriage paid."

100% Protected Profit.

Proprietors:—EUCRYL LIMITED, HULL, ENGLAND.

OIL OF LEMON
OIL OF BERGAMOT
OIL OF ORANGE SWEET

New Crop
BEST SICILIAN BRANDS.
WHOLESALE ONLY.

FREDK. BOEHM LTD., 16, JEWRY ST., LONDON, E.C.

TRY IT IN YOUR BATH

BY APPOINTMENT TO H.M. THE KING.

SCRUBB'S AMMONIA

MARVELLOUS PREPARATION

Refreshing as a Turkish Bath. Invaluable for Toilet Purposes.
Splendid Cleansing Preparation for the Hair. Removes Stains and Grease Spots from Clothing.
Allays the Irritation caused by Mosquito Bites. Invigorating in Hot Climates.
Restores the Colour to Carpets. Cleans Plate and Jewellery. Softens Hard Water.

Of all Chemists, Etc. Price 1s. per Bottle.

SCRUBB & CO., LTD., GUILDFORD STREET, LONDON, S.E.

888 886 856 890 892 829 828 851 852 839 809 600 812 838 836 807 805

Please order samples, specifying the style of Brush, and the price you wish to pay.

H. L. STERKEL
BRUSH MANUFACTURER
102, Fenchurch St.
LONDON E.C.

"No. 54 ALTERMARKT"
(ORIGINAL HAUS)

EAU DE COLOGNE

SUPERIOR TO ANY OTHER BRAND.

Of all Wholesale Houses, and the Sole Agents for United Kingdom and the Colonies—

VAN OPPEN, ROSS & CO.
38 BASINGHALL STREET, LONDON, E.C.

VISCOSE BOTTLE CAPS

For CAPPING EVERYTHING
whether corked, stoppered or sprinkled.
BETTER APPEARANCE,
MORE EFFICIENT AND EASIER TO APPLY THAN ANY OTHER CAPPING.
Strong, perfect fitting, SELF-FIXING, air-tight and spirit-tight, &c. &c.

VISCOSE DEVELOPMENT CO., Ltd., 3 New Court, Carey Street, London, W.C

ON THE P.A.T.A. LIST.

JOHN BOND'S
"CRYSTAL PALACE"
MARKING INK

Guaranteed Profit 40 per cent.

Supplied to the Royal Households, and awarded 45 Gold Medals, &c., for excellence. 100 YEARS' WORLD-WIDE REPUTATION.

	Protected Minimum Price.	Minimum Price to the Retail.	Minimum Price to the Wholesale.
6d. size	4d. per bot.	2/9 doz. nett	30/- gross nett
1s. "	8d. "	5/6 "	60/- "

Minimum Order at Wholesale Rates:
1 gross of 6d. Inks or assorted order to same value.

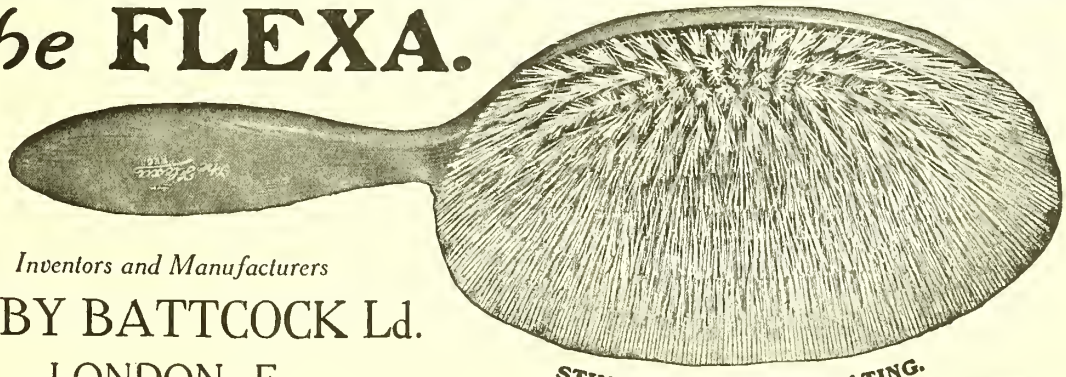
Smaller quantities should be ordered through any of the Wholesale Houses. Carriage paid on parcels of £5 and upwards.

N.B.—When ordering through the Wholesale, please specify the "CRYSTAL PALACE INK," and if the Original Preparation Requiring Heat, the Non-Heat kind, or Assorted is required; and in order that no customer may suffer loss through old or soiled stock, this can always be exchanged for fresh, either direct or through the Wholesale.

MANUFACTURED BY
ALFRED BOND HICKISSON, Sole Proprietor,
75 Southgate Road, LONDON, N.

Depot for HENRY BOND'S ORIGINAL INDELIBLE "OAK TREE" MARKING INK

The FLEXA.



Inventors and Manufacturers
RIGBY BATTCOCK Ld.
LONDON, E.

STIMULATING. PENETRATING.

Add a new source of income to your business by taking up

Laurence's

ONE-SOLUTION

Hair Dye

In nine shades — Raven Black, Black, Dark Brown, Brown, Medium Brown, Light Brown, Golden Brown, Auburn and Chestnut.

THE BEST ON THE MARKET.

ABSOLUTELY RELIABLE.

Shows over 100 per cent. profit

Can be supplied under Chemist's own title if preferred, and exclusive design of carton and label reserved in any one town

Write at once for particulars to—

C. R. HARKER, STAGG & MORGAN LTD.

Devon Wharf, Emmott Street,

MILE END, LONDON, E.

An Attractive Window pays.

READ READ

what **"THE CHEMIST & DRUGGIST"** says:

LAIT LAROLA. — "This little engraving represents one of the smartest arrangements for window-display that we have seen for some time. It is collapsible, measures 20 in. high by 11 in. wide, and although made of cardboard, at a distance of 3 or 4 yards it is so substantial looking as to convey the idea of the original cartons of "Lait Larola." It is just the thing to make an attractive corner in the window, on a shelf, or, indeed, in any part of the pharmacy. Any *C. & D.* subscribers who would like one should write to Messrs. Beetham & Son, Cheltenham, the proprietors of "Lait Larola."

Also Show Cards and Coloured Pictorial Postcards for distribution if desired. All the "Larola" preparations are protected at **FULL FACE VALUE,** and the goods bear a good profit.

Price List with terms sent on application to—

M. BEETHAM & SON, Cheltenham.

Triple Milled "D" 12 Tablets.

CHEMISTS' TRIPLE MILLED

Toilet Soaps

Exclusively reserved for Chemists.

GUARANTEE OF PURITY.

These Soaps are guaranteed to be made from

EDIBLE FATS, and are prepared under

STRICT HYGIENIC CONDITIONS

Chemists' Triple Milled	25	Varieties.
Chemists' Savon de Toilette ...	10	"
Chemists' Milled	10	"
Chemists' Medicated	3	"
Chemists' Glycerin and Cucumber	1	"

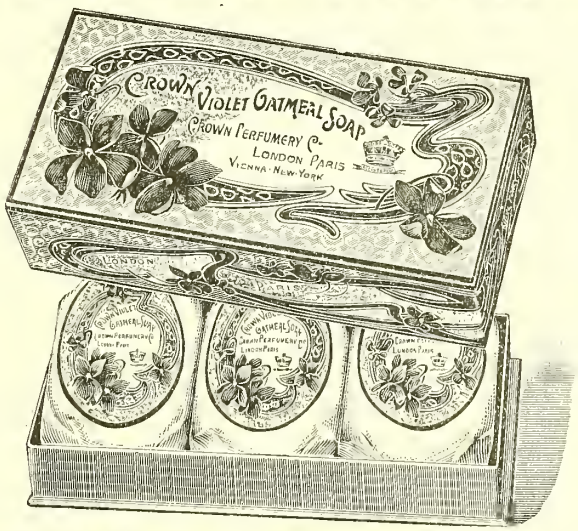
Grand Prize, Franco-British Exhibition.

Full Particulars and Illustrated Price List from

Price's Patent Candle Company, Limited.

BELMONT WORKS, BATTERSEA, LONDON.

CROWN VIOLET OATMEAL SOAP



A LINE WHICH BRINGS CUSTOMERS.

FOR A BRIEF PERIOD ONLY, commencing from February 1st,

On quantities of not less than one gross boxes we can offer an extra discount of 5 per cent., which shows you

A PROFIT OF 55 PER CENT. ON YOUR OUTLAY.

The only stipulation we make is that a window display lasting at least two weeks is made of your purchase.

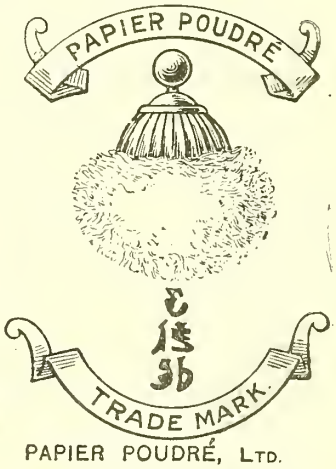
Sole Manufacturers, **THE CROWN PERFUMERY CO., LONDON & PARIS.**

PAPIER POUDRE

TRADE MARKS. REGISTERED

"LEHCARESOR."

Papier Poudre



PAPIER POUDRÉ, LTD.
23 Somerset Street, Portman Square, London, W., and in Paris.

POWDER WITHOUT A PUFF.

The Original PAPIER POUDRÉ in Dainty Books.

Papier Poudré, 3*d.* size (White, Rose, or Rachel)	2/-
" " 6*d.* size " "	3/9
" " 1/- size " "	7/6
Papier Poudré Shaving Pads, 1/- size (White) ...	7/6

Special Prices to Wholesalers and Shippers.

CAUTION.

An order has been entered by the Supreme Court of the State of New York against the Payne Manufacturing Company, prohibiting said defendants from manufacturing or selling any colourable imitations of the PAPIER POUDRÉ BOOKS of said PAPIER POUDRÉ, LTD.

BEWARE OF THE NUMEROUS IMITATIONS.

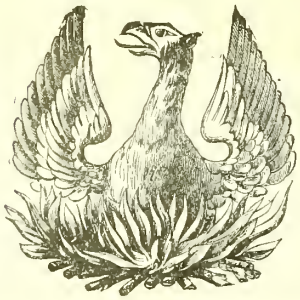
None Genuine without our TRADE MARK. Price List on Application to

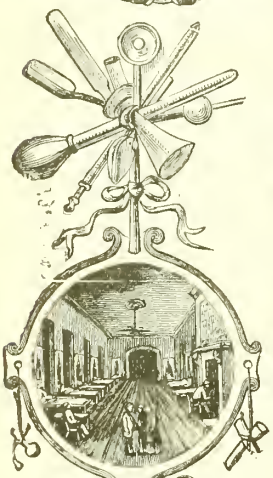
PAPIER POUDRÉ, LIMITED,

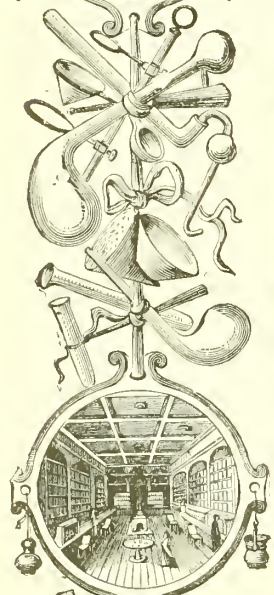
23 SOMERSET STREET, PORTMAN SQUARE, LONDON, W.

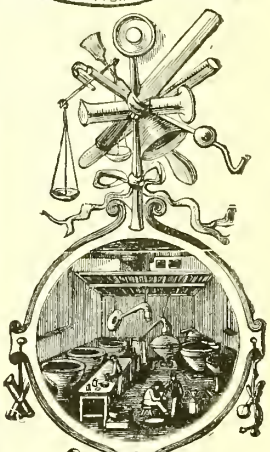
Sole Agents for United States of America:

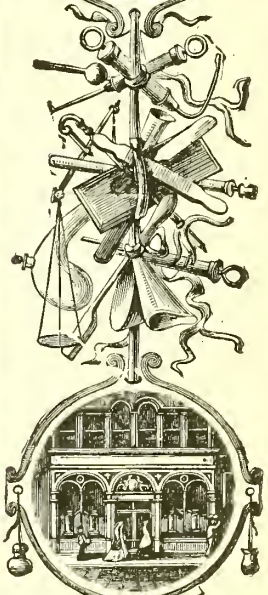
F. R. ARNOLD & CO., 3, 5, and 7 West 22nd St., New York.











MAW'S

DISPENSING BOTTLES,

BED PANS, URINALS,

Shop Rounds, Show Jars,

GRADUATED MEASURES

EARTHENWARE POTS,

Glass Barrels for Lotions, &c.

Syringes, Medicine Chests,

Feeding Cups, Toilet Bottles,

MORTARS & PESTLES,

&c., &c.

7-12 ALDERSGATE STREET, LONDON, E.C.

Telephone: 3230 London Wall (4 lines).
Telegrams: "ELEVEN LONDON."

N.B.

The Best Sells Best!

SUCC. GLYCYRRH. SAVARINI

is an extra refined Liquorice Juice specially manufactured for us and guaranteed pure.

In Sticks of 1 oz., 3 oz., & 4 oz.

1/- per lb.

14 lb. 11d.

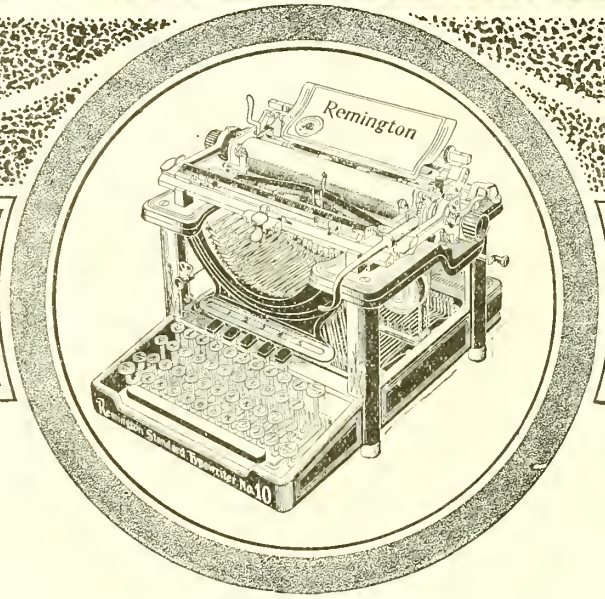
CASE LESS.

Showcards, Handbills, &c.

WE HAVE ALSO CHEAPER BRANDS.

Evans Sons Lescher & Webb, Limited.

LIVERPOOL & LONDON.



The New Models 10 and 11

Remington

constitute an epoch-making advance in the progressive development of the typewriter

These new models combine all the famous Remington qualities with new improvements which are a revelation in time and labor saving. They do more than supply every demand; they **anticipate** every demand of every user of the writing machine.

SOME OF THE NEW FEATURES

New Single Dog Escapement
New Column Selector (Model 10)
New Built-in Decimal Tabulator (Model 11)
New Carriage Governor
New Back Space Key
New Variable Line Spacing Lock
New Shift Lock
New Paper Feed

SEND POSTCARD FOR FREE BOOKLET.

Remington Typewriter Company

100 GRACECHURCH ST., LONDON, E.C.

Branches Everywhere.

MUTER'S
(SOUTH LONDON) SCHOOL OF PHARMACY

SPECIAL INCLUSIVE FEE

FROM FEBRUARY 1 . . . . . UNTIL THE APRIL EXAMINATIONS,

£6 6s. 0d.

For all particulars apply: THE SECRETARY,

325 KENNINGTON ROAD, LONDON, S.E.

LEEDS COLLEGE OF PHARMACY.

Principal - - F. PILKINGTON SARGEANT.

Students at this College, the largest in Great Britain devoted solely to pharmaceutical education, have exceptional advantages. The work is conducted under the direct supervision of the Principal. The equipment is perfect and fees are moderate. There are separate rooms for lady students.

Prospectus on application.

TERM COMMENCED JANUARY 12.
OPTICAL CORRESPONDENCE CLASS.

NORTHERN COLLEGE OF PHARMACY.

100 & 102 BURLINGTON STREET, MANCHESTER.

PRINCIPALS: GEO. CLAYTON, F.C.S., PH.C.; F. LAWSON, B.SC., PH.C.

The **Thoroughness of the Preparation** for the Minor was again shown by the results of the January Examination, one fourth of the total English pass being Northern College Students, whilst two-thirds passed at **First attempt.**

The Next Course of Full-time Preparation commences on April 1st. *Prospectus free.*

BOOKS SPECIALLY WRITTEN FOR THE MINOR.

Clayton's Qualitative Analysis, 2s. 6d. post free.
,, Prescription Reading, 2s. 6d. post free.
,, Organic Chemistry Notes, 2s. 0d. post free.
Lawson's Materia Medica, 2s. 6d. post free.
,, Volumetric Analysis, 2s. 6d. post free.
,, Examination Dispensing, 1s. 6d. post free.

The Set of Six Books will be forwarded post free for 12s. 6d. to any address.

The MANCHESTER COLLEGE OF PHARMACY,

225a & 227a Oxford Road, Manchester.

Director :: Mr. CHARLES TURNER, F.C.S., Ph.C.
ANALYTICAL CHEMIST.

THE ARRANGEMENTS FOR LOCAL STUDENTS

are particularly worthy of notice. The fees are reasonable and inclusive, the Tuition is sound, and the Students are successful in the Examinations. Each man receives the personal attention of the Principal.

The Classes for the April and July Examinations are at work.

The next term will begin on April 5th.

LONDON COLLEGE OF CHEMISTRY, PHARMACY, AND BOTANY.

PRINCIPALS: HENRY WOOTTON, B.Sc. (Lond.) ARTHUR KIRKLAND, Ph.C.

MINOR HALF-TERM, FEBRUARY 17.
The next complete Courses of Lectures commence on April 14.
Fees: Minor, 9½ guineas to the July Examination.
Major, 6½ guineas to the July Examination.
Preliminary Course (College of Preceptors) begins on March 15.
Apothecaries' Hall Course began on January 27.
Evening Classes are held on Monday, Wednesday, and Thursday, 7 to 9 p.m.

EXAMINATION RESULTS.—A larger number of students have passed the Pharmaceutical Examinations from the London College, since its establishment, than from any other School.
October Minor Examination, one-third the total pass.
January Minor Examination, one-fourth the total pass.
Pass Lists sent on application.
For Prospectus, &c., apply to
THE SECRETARY, LONDON COLLEGE OF CHEMISTRY, 323 Clapham Road, LONDON, S.W.

NORTH OF ENGLAND SCHOOL OF CHEMISTRY & PHARMACY,

55 Northumberland Street, Newcastle-on-Tyne

Principal: J. STABLEFORD HILL, Ph.C.

Thorough Preparation for MINOR, MAJOR, & APOTHECARIES' HALL Examinations.

FEES MODERATE AND INCLUSIVE.

MEMORY MEANS MONEY.

Failure at Exams., Mind-Wandering, and Brain Wear may be avoided by giving a small amount of time to the acquisition of a perfectly-trained memory. Thousands of successful men, women, and students owe their success to their memory, and they owe their memory to

The PELMAN-FOSTER SYSTEM OF MEMORY TRAINING

(Grand Prix and Five Gold Medals).

Students, Clerks, and Business Men trained by this System develop the faculty of memory to a remarkable degree. They not only profit by knowledge and experience, but find its acquisition less tedious.

The enemy to mind-wandering.

CHEMIST, Herts, writes: "Concentration of mind is greatly augmented by following your instructions, and thus the great enemy of mental progress, namely, mind-wandering, is effectually destroyed."

Write for free explanatory pamphlet, pupils' testimonials, and Press opinions. *Taught by Post.* Address the Secretary—

PELMAN SCHOOL OF MEMORY,
55 Wenham House, Bloomsbury St., LONDON, W.C.
Melbourne: 33 Stock Exchange Bldg. Bombay: 28 Esplanade Road.

The South of England College of Pharmacy

— 186 —
CLAPHAM ROAD, LONDON, S.W.

Principal: Mr. H. LUCAS, Ph.C., F.C.S., Assisted by Mr. T. W. ATTENBOROUGH, Ph.C.

FACILITIES UNEXCELLED! TEACHING PERSONAL AND THOROUGH!

Examination Results Session 1908 (January—October) **38 passes** in the Minor (**50**% at their first attempt).

January Examination 1909 passes, 8 Minors:

Mr. F. J. GOULD
Mr. S. W. M. HAMSON
Mr. J. E. EMMOTT
Mr. A. WALTON
Mr. WERNER SIVERTSEN
Mr. J. S. P. WESLEY
Mr. J. S. WHITE
and *one* old student.

Half Term February 11th ... ... Fee £5 5s.

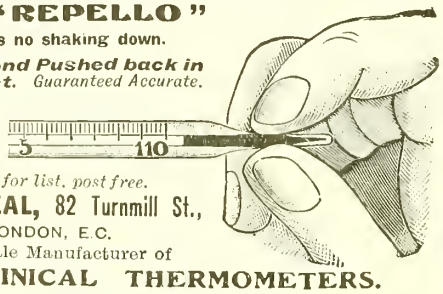
Apply THE SECRETARY.

ZEAL'S PATENT
CLINICAL THERMOMETER
The "REPELLO"

Requires no shaking down.

A 30-Second Pushed back in an instant. *Guaranteed Accurate.*

Good Selling Lines for Chemists.



Send for list, post free.

C. H. ZEAL, 82 Turnmill St., LONDON, E.C.

Wholesale Manufacturer of
CLINICAL THERMOMETERS.
A SELECTION OF 50 KINDS.

Established 1888 Telephone No. 12438 Central.

POISONS & PHARMACY ACT, 1908.

LABELS
IN ACCORD THEREWITH.

JAMES TOWNSEND & SONS,
Chemists' Speciality Printers,
EXETER & LONDON.

The LUCAS LIBRARY

PHARMACY.
2nd Ed. 224 Figures. **12s. 6d.** net.

DISPENSING.
93 Figures. **3s. 6d.** net.

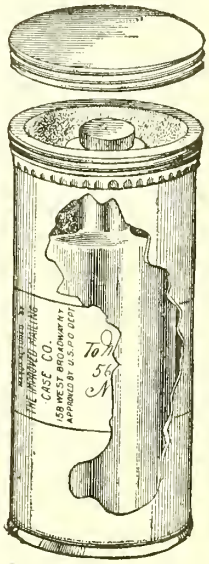
PRESCRIPTIONS.
With Index of Diseases and Remedies. 9th Ed. **6s.** net.

RECEIPTS.
Veterinary, Pharmaceutical, Domestic, Photographic. 11th Ed. 10 Plates, **7s. 6d.** net.

By E. W. LUCAS, F.I.C., F.C.S.,
Late Examiner to the Pharmaceutical Society of Great Britain.

Please write for Prospectus to the Publishers:
J. & A. CHURCHILL, 7 Great Marlborough Street, LONDON

THE MAILING CASES
Manufactured by
The Improved MAILING CASE co.
OF NEW YORK, U.S.A.,



Are now admitted by the Postmaster General for transmission of Liquids and the dispatch of

Drugs, Chemicals, Perfumes, Oils, Syrups, Patent Medicines, Pills, Essences, Grease, Fat, Tallow, Wines, Spirits, & Liqueurs, etc.

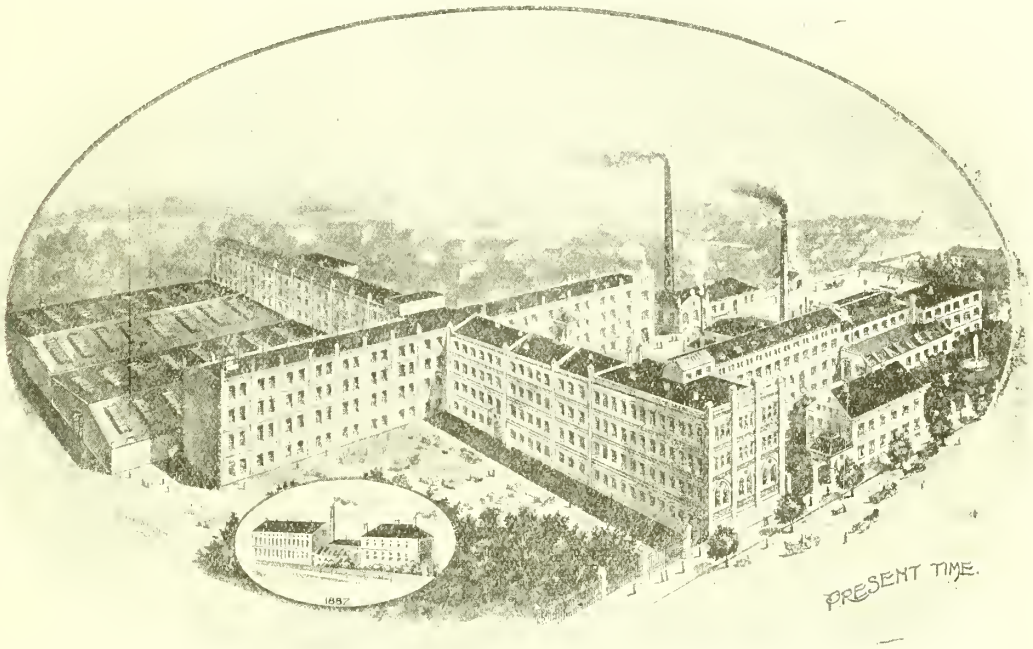
by Home and Foreign Mails, because they are in accordance with British and Foreign Postal Regulations.

Current sizes in stock.

Price List on application to the Sole European Agents—
HERTZ & CO.
9 Mincing Lane, London, E.C.

NITSCHE & GÜNTHER,

66 HATTON GARDEN, LONDON, E.C.



OPTICAL WORKS, RATHENOW.
Largest Optical Factory of its kind in Europe. 2 Engines of 500 H.P. 70 Motors and Dynamos.
Employees number over 1,300.
Hundreds of Special Automatic Machines for the various processes of Spectacle and Eyeglass Manufacture.

MAKERS OF

Gold, Rolled Gold, "Ratenoid" (Regd.),

AND

Steel Spectacles and Eyeglasses.

TRIAL CASES AND FRAMES,
RETINOSCOPES, OPHTHALMOSCOPES, &
SIGHT-TESTING APPLIANCES.

Our latest Catalogue forwarded on receipt of Trade Card.

Express Developing Co.

(REGISTERED.)

OUR ANNOUNCEMENTS WILL APPEAR IN THE FIRST ISSUE OF EVERY MONTH.

THE TRADE HOUSE FOR PHOTO ENLARGEMENTS AND COLOURED MINIATURES.

ALL OUR CLIENTS ARE CHEMISTS.
Their requirements are our special study.

Roll Films developed and despatched day after receipt.

CARBONS. PRINTING IN ALL PROCESSES. POSTCARDS.

WRITE FOR PRICE LIST AND PARTICULARS OF OUR PROFITABLE SIDE LINES.

EXPRESS DEVELOPING CO., 86 High Street, Whitechapel, E.C.

TELEGRAMS: BEATSON, ROTHERHAM. ESTABLISHED 1751. TELEPHONE: 88.

BEATSON & Co.

MEDICAL GLASS MANUFACTURERS

ROTHERHAM, YORKS.

HIGH-CLASS DISPENSING BOTTLES, VIALS, &c.
RECESS LABELLED SHOP ROUNDS, MEASURES, &c.

CONTRACTORS TO THE ADMIRALTY.

WINCARNIS

The Leading Wine Tonic.

In great demand by the Public.

Sold by Chemists holding Wine Licences.

Recommended by the Medical Profession.

Send for full particulars.

CHEMISTS MAY SELL "WINCARNIS WITH QUININE" WITHOUT A WINE LICENCE.

WINCARNIS IS WELL ADVERTISED TO THE PUBLIC.

Coleman & Co., Ltd.,

WINCARNIS WORKS, NORWICH.

ESTAB. 1871 CONTRACTORS TO WAR OFFICE, ETC.

CORKS FOR CHEMISTS.

We are the ONLY CORK FIRM that makes a speciality of RETAIL CHEMISTS' CORKS.

A Leading Line.

6 and 8-oz. CORKS.
1 inch long. Fine Quality.

7D. per gross.

10/- worth delivered free British Isles. 50 gross lots less 5% and 2½% for cash.

FREE SAMPLE SENT IF DESIRED.

Write for Samples & Prices.

N.W. MITCHELL & SONS, LTD

CORK MANUFACTURERS & IMPORTERS,
BOUCHON WKS., 15-17, FARRANCE ST., LIMEHOUSE, LONDON E.

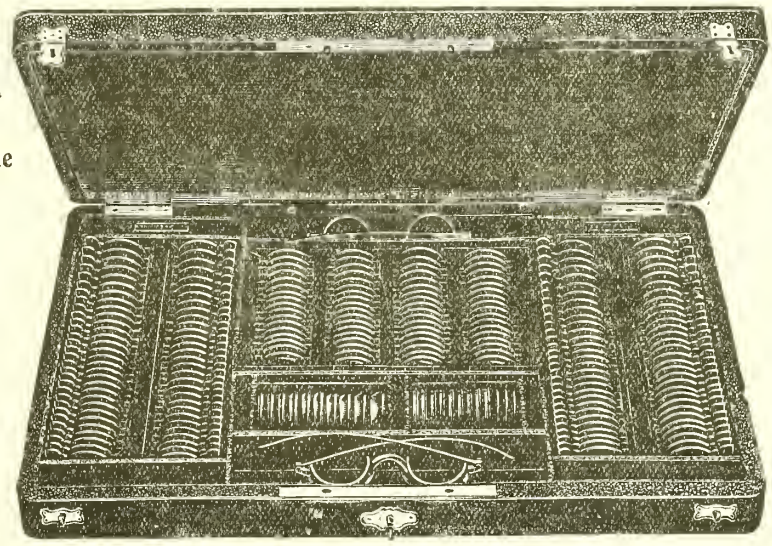
F. DARTON & CO.,

MANUFACTURING OPTICIANS.

CLERKENWELL OPTICAL WORKS:
142 ST. JOHN ST., & 52 CLERKENWELL RD., LONDON.

Spectacles and Eye Glasses in all Metals in Interchangeable Sizes.

Cyclists' and Motor Goggles, Frameless Folders and Spectacles, with Gold and Rolled Gold Mounts.



REPAIRING DEPT.
Special Attention Given to this Department.

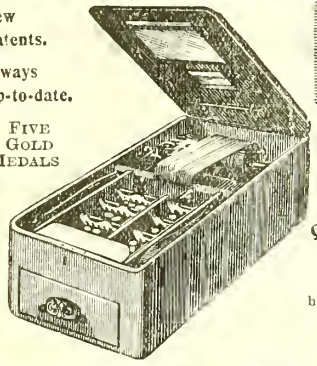
Repairs by Return of Post

OCULISTS' PRESCRIPTIONS correctly and expeditiously fitted.

STANDARD TRIAL CASES, TEST TYPES, LENS MEASURES, & ALL APPARATUS FOR SIGHT TESTING ALWAYS IN STOCK.

THE FOLLOWING ILLUSTRATED LISTS ON RECEIPT OF TRADE CARD:—
Field and Opera Glasses, Microscopes, Aneroid and Mercurial Barometers and Thermometers, Electric Motors, Dynamos, and Accumulators.

New Patents.
Always Up-to-date.
FIVE GOLD MEDALS



O'BRIEN'S Self-closing CHECK TILLS

THE STANDARD CHECK TILLS.

Quickest, Safest, Best and Cheapest. Made in Solid Mahogany throughout.

ALL THE LATEST AND GREATEST IMPROVEMENTS

TESTIMONIAL, 25th Feb., 1908.
"I should like to express my entire satisfaction with the way in which the Till has served me. I have never had the least trouble with it, and practically it is as good as ever." (Signed) E. W. ROBERTS. (Till six years in use.)

PRICES FROM TWO-AND-A-HALF GUINEAS.

London Showrooms: 281 & 282 High Holborn.

Send for Full Price List to THOMAS O'BRIEN, Slater Street, Bold Street, LIVERPOOL.

THE UP-TO-DATE COLD AND INFLUENZA CURE.

J.D. Quinine and Cinnamon Oil Perles

RELIABLE AND EFFECTIVE.

PUT UP IN Fancy Decorated Tins to retail at 1/- each,

6/6 per doz. net.

Sole Manufacturers—
JULES DENOUAL & CO.,
Carlton Works, ASYLUM ROAD, LONDON, S.E.

LARGE PROFITS, QUICK SALES

for those who stock

DALLOFF TEA

The world's greatest cure for

CORPULENCY

Dalloff Tea, a herbal compound, prepared under strict medical supervision, is recommended by the leading physicians of all Europe, and sells readily. Further, owing to our extensive advertising of Dalloff Tea, for corpulency, in all the leading daily papers and ladies' magazines, Dalloff Tea is absolutely in demand; all you have to do is pass out a packet and take in the money. Every packet sold assures you of six further sales to same customer. Obtainable through all wholesale houses.

For further particulars write us, and our representative will call upon you.

L. GENIN & CO., 32 NEWGATE STREET, LONDON, E.C.

NATURAL MINERAL WATERS, &c.

SOLE AGENTS FOR

VICHY

(STATE SPRINGS)

CARLSBAD WATERS and SPRUDEL SALTS.

WHOLESALE AGENTS FOR

AESCULAP,	HUNYADI JANOS,	PERRIER,
BONIFACIUS,	INSALUS,	ROSBACH,
CONDAL,	KISSINGEN,	RUBINAT,
CONTREXEVILLE,	KRONENQUELLE,	ST. GALMIER,
EVIAN,	LEVICO,	VALS,
FRANZ-JOSEF,	MONTREUX,	VILLACABRAS,
FRIEDRICHSHALL,	OBERBRUNNEN,	VITTEL,
GIESSHUBLER,	OBER-SELTERS,	WILDUNGEN,
GUBERQUELLE,		

and all other Natural Mineral Waters.

Price Lists, Show Cards, Dummy Bottles, Pamphlets, &c. [1]

INGRAM & ROYLE, LTD., EAST PAUL'S WHARF, 26 UPPER THAMES ST., E.C.

AND AT LIVERPOOL AND BRISTOL.

Special Discounts for Export.

MENLEY & JAMES, Ltd.

Menley House, 39 Farringdon Road, London, E.C.

are now introducing to the Medical Profession

GLIDINE = = (A pure Vegetable Protein Food). Retailing at **2/9** and **5/-** per tin.

IODOGLIDINE (An organic Compound of Iodine with pure Vegetable Protein.) Retailing at **4/-** per phial of 20 tablets.

LAXOL = = (Castor Oil made palatable). Retailing at **1/1½** per bottle.

Price List will be sent on application.

Ford, Shapland & Co.

CHEMISTS' AND GENERAL PRINTERS, &c.

6 Great Turnstile, High Holborn, LONDON, W.C.

WINDOW BILLS AND SHOWCARDS

Stocked in Great Variety for all Specialities.

ALMANACKS & CALENDARS FOR 1909.

These excellent and artistic advertising mediums *now ready.*

Samples and Prices on application.

TOILET ROLLS.

Write for Samples and Prices.

Dr. Allinson's Food Preparations.

Natural Food, Brunak, Power, &c.

NOTICE TO THE TRADE.

We print a list of the WHOLESALE HOUSES who keep above preparations in stock; if for *any* reason you have a difficulty in obtaining supplies, please send post-card direct to us, and a copy of the list will be sent to you by return.

NATURAL FOOD COMPANY, LIMITED.
Room 227, 305 Cambridge Road, Bethnal Green, LONDON, E.

Handbills, Booklets, Showcards, &c., Free.

SAL HEPATICA

EFFERVESCENT SALINE LAXATIVE.
URIC ACID SOLVENT.

A combination of the Tonic, Alterative and Laxative Salts similar to the celebrated Bitter Waters of Europe, fortified by the addition of Lithia and Sodium Phosphate. It stimulates the liver, tones intestinal glands, purifies alimentary tract, improves digestion, assimilation and metabolism. Especially valuable in **Rheumatism, Gout, Bilious Attacks and Constipation.**

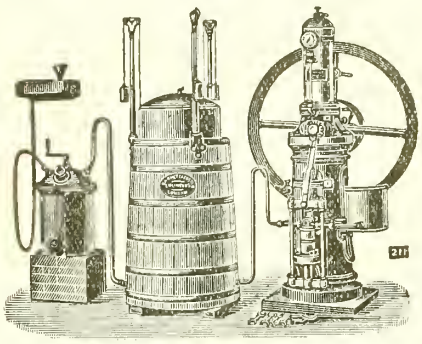
Most efficient in eliminating toxic products from intestinal tract or blood, and correcting vicious or impaired functions.

WRITE FOR FREE SAMPLE.

BRISTOL-MYERS CO.,
Brooklyn-New York, U.S.A.

On sale by Jobbers and Thomas Christy & Co., London, Eng.

THE BEST HOUSE IN THE WORLD for all requirements — of the — MINERAL WATER TRADE



THE "NIAGARA."

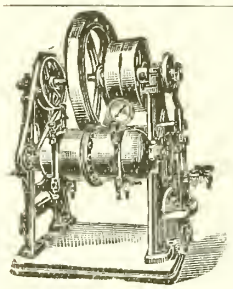
This type is fast superseding all other makes, and is used in the leading manufactories of the world.

Size	Producing capacity per day	Price, with gas-making apparatus
X	100 dozen	£30
W	300	£45
U	450 "	£52
T	600 "	£70
S	1,200 "	£85
R	2,500 "	£135

Are all Fitted for Hand and Power.

NOTE.—We *include* all necessary Connecting Pipes free *without extra charge*, so that the machinery is ready for work upon arrival.

FOR LARGER SIZES SEE CATALOGUE.



THE "LILLIPUTIAN."

Complete with Gas-making Apparatus, all pipings and connections included.

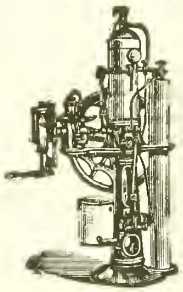
No. 1 size, producing 600 dozen in 10 hours £62 0 0
No. 2 " " 1,000 " " £75 0 0

No. 1 is fitted for Hand Power: No. 2 for Motive Power.

THE "LANCASHIRE."

Complete with Gas-making Apparatus, all pipings and connections included.

No. 0 size producing 2,500 dozen in 10 hours £165 0 0
No. 1 " " 1,500 " £131 0 0
No. 2 " " 1,200 .. .. £100 0 0



THE "COMPACT."

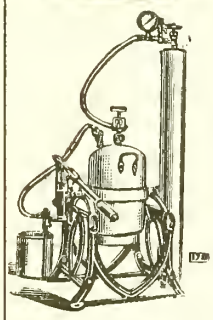
For Use with Compressed Carbonic Acid Gas.

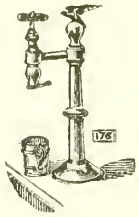
In use by the leading Chemists, Hotels, Hospitals, and Public Institutions throughout the United Kingdom.

THE MOST SUCCESSFUL MACHINE OF THE TIMES THE PERFECTION OF SIMPLICITY. AUTOMATIC CARBONATION.

PRICES:

No. 1.—Capacity 1,200 dozen per day, including Filling Machines for Bottles *and* Syphons £60 0 0
No. 2.—Capacity 600 dozen per day, including Filling Machines for Bottles *and* Syphons £48 0 0
No. 3.—Capacity 300 dozen per day, including Filling Machines for Bottles *or* Syphons £33 0 0





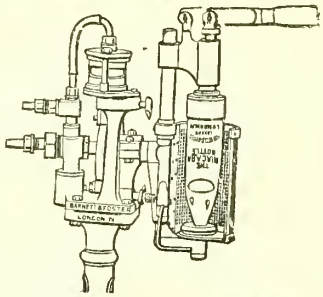
THE "CYLINDER" SODA WATER PLANT.

This is a Cheap Apparatus, designed for use with Compressed Carbonic Acid Gas, for serving Soda Water on the counter by means of a silver-plated counter stand.

PRICES FROM £18.

Specially suitable for Hotels, Chemists, Confectioners, Pastrycooks, &c.

THE "IDEAL."

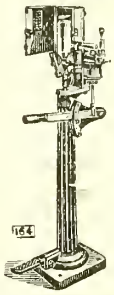


With Syrup Pump .. £9 9 0
Without Syrup Pump .. £7 7 0

FILLING MACHINE, for "Codd's Niagara" and all kinds of Internal Stoppered Bottles.

The Quickest and most reliable Filling Machine on the market. SYRUPS AND FILLS AT ONE OPERATION. No Waste.

THE "GALWAY."

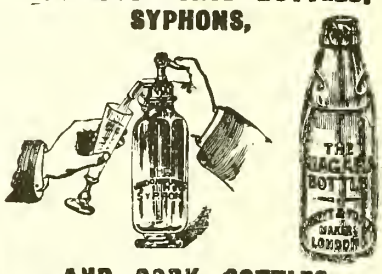


With Syrup Pump .. £10 10 0
Without Syrup Pump £5 5 0

FILLING MACHINE FOR SYPHONS.

THE SIMPLEST OF ANY SYPHON FILLER YET INTRODUCED.

BALL-STOPPERED BOTTLES, SYPHONS,



AND CORK BOTTLES
AT LOWEST RATES
Prices upon application.

SPECIALITY: "RED CLUB BRAND"
SOLUBLE ESSENCES.

Shipped in Bond. . . . Prices and Samples on application.

BARNETT & FOSTER, "Niagara Works," 26 Eagle Wharf Road, London, N.

Branch House: Johannesburg, P.O. Box 1316; Manager, Mr. CARL ALBERT.
Cape Town, P.O. Box 1391; Manager, Mr. F. G. INGRAM. } Stocks held.
Indian Agents: S. FITZE & CO., Ltd., Bombay, Calcutta, Karachi.

van Houten's Cocoa

The "LANCET" says:—"Pure and unmixed." "Delicate aroma." "Cheaper to use in the end."

A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

London Agent: T. W. CASHMAN, 16 Mark Lane, E.C.

BLOCK LIQUORICE JUICE *(Guaranteed absolutely pure.)*

BRANDS

"VB" "BX" "E"

("E" brand entirely soluble in cold water).

These juices, being **PURE,** bear the highest possible percentage of glycyrrhizin, and are consequently the most economical for all purposes.

EVANS, GRAY & HOOD, 5 GREAT TOWER STREET, LONDON, E.C.

"THE CHEMIST & DRUGGIST" SERIES.

PHARMACEUTICAL FORMULAS.	Price 10/-, by Post 10/6
THE ART OF DISPENSING.	Price 6/-, by Post 6/4
VETERINARY COUNTER PRACTICE.	Price 4/-, by Post 4/4
THE CHEMIST-OPTICIAN.	Price 4/-, by Post 4/3
ELEMENTARY DISPENSING PRACTICE.	Price 3/6, by Post 3/9
DISEASES AND REMEDIES.	Price 3/-, by Post 3/3
PHARMACEUTICAL TESTING.	Price 2/6, by Post 2/9
GUIDE TO PRELIM. EXAMS.	Price 2/6, by Post 2/9
URINE ANALYSIS.	Price 2/6, by Post 2/9
CHEMIST'S MEDICAL DICTIONARY.	Price 2/6, by Post 2/8
OPENING A PHARMACY.	Price 2/-, by Post 2/2

Published at the Offices of "THE CHEMIST AND DRUGGIST,"
LONDON, MELBOURNE, AND SYDNEY.

SANFORD & SON,

SANDY, BEDS.

MANUFACTURERS AND PROPRIETORS OF SANFORD'S

RAT, MICE & MOLE POISONS.

Successfully Used for 50 Years.

Yield 85% profit. Sold by all Wholesale Houses, or of

SANFORD & SON, SANDY.

IN TINS, 6d. TO 5/- EACH.

BUYERS' GUIDE,

See pages 7 to 11.

LOFTHOUSE & SALTMER, *Wholesale and Export Drug Merchants, Manufacturing Chemists,* HULL,

Invite the Trade to apply for the Agency for the following valuable P.A.T.A. Protected lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price.	Dozen.
LOSALL'S ASTHMA REMEDY	1/- ...	7/6 net.
LOSALL'S BALL ROOM FLOOR POLISH, in handsome decorated tins ...	1/- ...	7/- ,,
LOSALL'S SALT (well advertised), tins ...	6d. ...	3/6 ,,
,, ,, ,, ,, ...	1/- ...	7/- ,,
,, ,, ,, bottles in cartons	1/6 ...	10/6 ,,
,, **MILK FOOD,** oblong tins, 1/- size	8½d. ...	5/6 ,,
PREPARED BARLEY ("Crown Brand.") Usual 1/- size, lever lid tins. A good selling line	— ...	4/- net.
MALTED FOOD. Usual 1/- size, lever lid tins. Buyer's name and address printed free on 3 dozens. Special design label, name and address, on gross orders if desired	— ...	4/6 ,,
LOSALL'S FOOT-ROT OINTMENT, ... enamelled tins	1/- ...	7/6 ,,

Chemists taking up the above really valuable, large profit-yielding lines, will find them an important adjunct to their business.

London Agents: F. NEWBERY & SONS.; W. SUTTON & CO., 76 Chiswell Street, W. EDWARDS & SON, Queen Victoria Street, E.C.

If you want close up-to-date Quotations for superior and approved Counter Specialities, and for Pure Drugs, Chemicals or Pharmaceutical Preparations, don't fail to write to

LOFTHOUSE & SALTMER, *Wholesale Druggists,* HULL.

POTTER & CLARKE, LTD.,

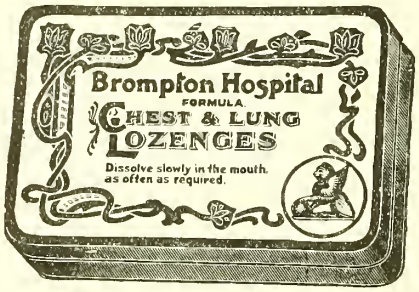
FOR

LOZENGES.

Pronounced by those who have tried them to be the best as yet on the market.

3d. Decorated Tins (1 doz. in box) ... 1/9 per doz.
3 doz. lots ... ... 1/8 „
1d. boxes (3 doz. in box) ... ... 7/- gross
In bulk, 1/- per lb.; 14 lbs. 11d.

BROMPTON HOSPITAL LOZENGES



3d. Tins (1 oz. size), 1/9 per doz.; 3 doz. lots, 1/8.
1d. boxes, in 3 doz. outers, 7/- per gross.
In bulk, 1/- per lb.; 14 lbs., 11d.

FIVE BARKS

(Registered No. 29579)

Chest & Lung JUBES.

Prepared from Canadian Pine, Slippery Elm, Cherry & White Pine Barks & Liquorice Root

Retails at 1d. per oz., 4 ozs. 3½d. Wholesale, per lb. 9d., 7 lbs. 8d. In 4 and 7 lb. tins (free).

WRITE FOR SAMPLE.

POTTER & CLARKE, LTD., *Lozenge Manufacturers* 60-64 Artillery Lane, LONDON, E.

How to make £20

All that you have to do is to sell

1 × Euthymol Tooth Paste,
1 × Euthymol Tooth Powder,
1 × Euthymol Liquid Dentifrice,
1 × Euthymol Toilet Powder,

or four of any one kind, every day, and at the end of twelve months you will have made a profit of over £20. Sell five of each daily and you will make over £100.

This seems easy.

The goods have a world-wide reputation as the best of their class. They only require to be displayed to effect sales.

It is also safe.

The profit is secured by P. A. T. A. rules. No one can undersell.

Is it not worth going after?

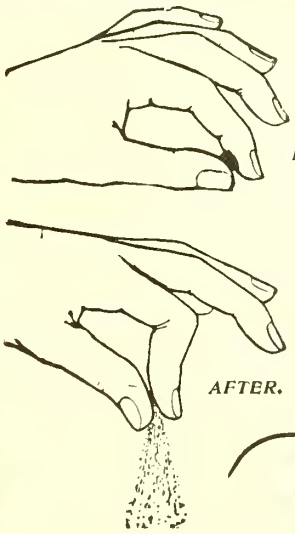
PARKE, DAVIS & CO., Beak St., Regent St., London, W.

"Pulverette."

TRADE MARK.

THE ALL BRITISH TRIUMPH IN PHARMACY.

May be crushed to powder between thumb and finger.



Slight pressure will crush a "Pulverette" to Powder.

TEST IT.

PRESS REPORTS.

"The Lancet," Dec. 14, 1907:

"A real advance on the ordinary pill. In water the 'Pulverette' soon disintegrates . . . obviously secures the prompt administration of a solid drug."

"The British & Colonial Druggist," Dec. 6, 1907:

"May be described as reaching the high-water mark in up-to-date pill manufacture."

Price List post-free on application.

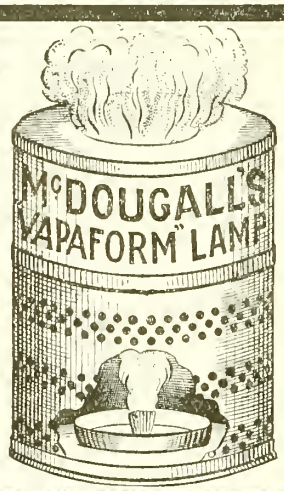
OPPENHEIMER, SON & CO., LTD.

179 Queen Victoria Street, LONDON.

McDOUGALL'S
PATENT
"VAPAFORM" LAMP

1/- 1/-

ON P.A.T.A. LIST



ON P.A.T.A. LIST

THE LATEST ADVANCE IN SCIENTIFIC DI-INFECTION
(by means of Formaldehyde)
EACH LAMP FOR 1000 CUBIC FEET

INVALUABLE FOR
DOCTORS—To disinfect clothes after visiting infectious cases
SURGEONS—To sterilize rooms before operations.
HOUSEHOLDERS—To thoroughly disinfect their homes after infectious diseases, such as Influenza, Measles, Chicken Pox, Fevers, &c.

SOLD BY ALL CHEMISTS.
Patentees—McDOUGALL BROS., Port St., Manchester.

GOOD NEWS FOR ALL.

ZOTOS

The Infallible Remedy against
SEA-SICKNESS,
TRAIN-SICKNESS, &c.,
has proved itself
A BOON TO TRAVELLERS AND A SOURCE OF PROFIT TO THE TRADE.

ZOTOS is being extensively advertised, and commands a ready sale.

ZOTOS is certified to contain no injurious drug by Mr. Ernest J. Parry, B.Sc., F.I.C., F.C.S.; has no bad after-effects; is absolutely harmless.

ZOTOS is on the P.A.T.A. List.

SPECIAL BONUS TERMS FOR ATTRACTIVE WINDOW DISPLAYS

Sole Proprietors:
ZOTOS LTD 32-34 Theobald's Rd., LONDON, W.C.
Telephone: 1348 City. Telegrams: "Zotosetto."

EVERY GENUINE PACKAGE

BEARS THIS LABEL.

EWEN'S LARD
is the
ONLY LARD
that
is made exclusively for Pharmaceutical and Perfumery preparations, and is the
BEST AND MOST RELIABLE
Guaranteed B.P. Lard on the Market.

DAY, SON & HEWITT'S
Animal Medicines.

A sure remedy for the Fret, Colic or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhœa in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.
Price 1s. 9d. per bot.; 20s. per doz.

For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for cleansing and checking Feverish Symptoms in Cows and Ewes after Parturition.
Price (Cows), 13s. per doz.; Ewes, 3s. 6d.

For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.
Price 2s. 6d., 3s. 6d., and 7s. per bot.

For full particulars apply—
ROYAL ANIMAL MEDICINE MANUFACTORY,
22 DORSET ST., LONDON, W.

DISPENSING BOTTLES & PHIALS.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W.
Beg to call attention to their REDUCED PRICES FOR THE NEW YEAR. Early orders solicited.

FIRST QUALITY.
3 & 4 6 & 8 12 16 ounce.
9/- 10/- 15/- 20/- per gross } Round edges, plain or graduated, quinine tinted.

SECOND QUALITY.
3 & 4 6 & 8 12 16 ounce.
7/6 8/6 12/- 18/- per gross } Round edges, plain or graduated, clear blue tinted.

PANEL BOTTLES (reduced prices).
2 3 4 6 8 ounce
7/6 8/- 8/- 9/- 10/- per gross.

WHITE PHIALS—GOOD QUALITY.
½ 1 1½ 2 ounce
3/6 4/- 4/6 5/6 per gross } Plain or teaspoons.

Six gross and upwards, assorted or otherwise, sent carriage paid to any address in the United Kingdom. Smaller quantities not carriage paid.

Established 50 years. Bankers: London and Westminster Bank.

Ergotoxine

The alkaloid ERGOTOXINE, the active therapeutic principle of Ergot, can be obtained in a state of chemical purity from its phosphate ($C_{35}H_{41}O_6N_5, H_3PO_4, H_2O$), which crystallises in needles melting at 186–187°C. (*Journ. Chem. Soc.*, 1907, **91**, 349.) *See also Chemist & Druggist, Jan.* 30, 1908, *page* 150

Ergotoxine thus purified is presented as

'TABLOID' HYPOD. ERGOTOXINÆ, Gr. 1/100
(*Trade Mark*)

'TABLOID' HYPOD. ERGOTOXINÆ et MORPHINÆ SULPHATIS
(*Trade Mark*)

℞ Ergotoxinæ - - gr. 1/100
Morphinæ Sulphatis gr. 1/6

'TABLOID' HYPOD. ERGOTOXINÆ et STRYCHNINÆ SULPHATIS
(*Trade Mark*)

℞ Ergotoxinæ - - gr. 1/100
Strychninæ Sulphatis gr. 1/20

The alkaloid is contained in the convenient and widely-used

'Ernutin' Products
(TRADE MARK)

'ERNUTIN' (for Oral use), in bottles of 1 oz., 4 oz., 16 oz. and 30 c.c.

'ERNUTIN' (Hypodermic), in hermetically-sealed phials containing min. 10 and 0·6 c.c., **physiologically standardised sterile solution.**

In these preparations Ergotoxine is presented in a degree of purity which hitherto has never been approached. They are physiologically standardised by an original and scientific method which constitutes the most exacting test applied to preparations of Ergot. It ensures **definite** and **uniform activity** of each dose of 'Ernutin.'

BURROUGHS WELLCOME & CO., LONDON (ENG.)

G 269] *Branches:* NEW YORK MONTREAL SYDNEY CAPE TOWN SHANGHAI [COPYRIGHT

The British Drug Houses, Ltd.

MANUFACTURERS · OF · OFFICIAL · CHEMICALS

Specially prepared to meet the highest requirements of Modern Pharmacy.

Pharmacists have a perfectly reasonable and well-founded predilection in favour of chemicals in crystals rather than in powder, on account of the greater chemical purity thus often obtained. At the same time, a powder is much more convenient for weighing and dissolving, though some of this convenience disappears if the powder have a tendency to "cake."

Potassium Citrate
Sodium Citrate
Lithium Citrate

(supplied in the form of neutral non-deliquescent crystalline powders) and

Sodium Sulphate
Sodium Phosphate

(supplied in the form of small, so-called "feathery" crystals) combine the best advantage of both forms. They combine the greatest convenience in dispensing with the very highest degree of chemical purity.

Addresses :

BARRON HARVEYS & CO., Giltspur St., London, E.C.
DAVY HILL & HODGKINSONS, LTD., Southwark, London, S.E.
HEARON SQUIRE & FRANCIS, LTD., Southwark St., London, S.E.

THE CHEMIST AND DRUGGIST

A Weekly Journal of the Chemical and Drug Trades,
and of
British Pharmacists throughout the Empire.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by seventeen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

Subscription Rates.

Ten shillings a year in advance, post free to any part of the world, including a copy of *The Chemists' and Druggists' Diary* next published. Subscriptions may begin any month. Single copy, 4*d.*; Summer or Winter Number, 1*s.* *Diary*, 3*s.* 6*d.* Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12·60 francs, franco.

Jährlicher Abonnementspreis: die Zeitung einmal wöchentlich, und der Notizkalender einmal im Jahre, 10 Mark, postfrei.

Precio de suscricion annual: el periodico una vez por semana, y el agenda una vez por anno, 12·60 pesetas, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.
Telegrams: "Chemicus London." Telephone 852 Bank.
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

CONTENTS: Vol. LXXIV., No. 6 (Series No. 1515).

Association President ... 235
Australasian News 216
Business Changes 234
Chemists' and Druggists' Society of Ireland 221
Colonial and Foreign News 216
Coming Events ... *Col. Supp.*
Correspondence:
Pharmaceutical Affairs in Ireland; Dispensing in Ireland 242
Not "Delightfully Sarcastic"; Registration without Examination; Branch Shops ... 243
Mutterings below Stairs. An Early Cascara Prescription; the "Territorial" Plan for Chemists; Churchill's Spirone and Hypophosphites 244
A System of Accounts for Chemists 245
Legal Queries 245
Miscellaneous Inquiries 246
Deaths 219
Deed of Arrangement ... 218
Editorial Comments—
The New Act 224
Poisoning in 1907 226
Notes 227
English News 212
Extending a Proprietary 228
Eriodictyon 228
Festivities 232
French News 215
Gazette 218
Information Wanted ... 229
Irish News 214
Legal Reports 217
Medical Gleanings 229
New Companies and Company News 219
Observations and Reflections 223
Personalities ..... *Col. Supp.*
Pharmaceutical Society of Great Britain: Council-meeting 230
Poisonings ..... *Col. Supp.*
Scientific Progress 229
Scots News 215
Society of Chemical Industry 222
Spectacle-makers' Co. ... 227
Trade-marks Applied For 228
Trade Notes 220
Trade Report 239
Winter Session:
Hull: Dundee Assistants; Dewsbury; Edinburgh; Workington; Fife; Grimsby; Blackpool; Plymouth; Cheltenham 235
Federation; Edinburgh Trade; Public Analysts; Halifax Chemists' Assis. 236
Liverpool, Portsmouth 237
Wolverhampton; N.E. Lancs 238

CULTIVATING FOREIGN TRADE.

A SPECIAL opportunity is to be afforded on March 13 to manufacturers and proprietors of chemists' specialities to make known their special brands to shippers throughout the United Kingdom. On that date the EXPORT MERCHANT SHIPPERS' ISSUE of THE CHEMIST AND DRUGGIST will be published, and it will go to a specially selected list of merchant shippers in addition to its ordinary weekly circulation. The fact that the chemical and drug trades suffered less from general trade decline during the past year than many others shows that there is a genuine demand for the products of British manufacturers all over the world. Merchants and manufacturers, therefore, who are desirous of bringing their goods before an unequalled circle of buyers should employ the special opportunities given by the Merchant Shippers' Issue. The Publisher will be obliged if those desirous of having space in that issue will kindly send on their requirements at as early a date as possible. All communications to 42 Cannon Street, London, E.C.

Summary.

The subjoined paragraphs give the gist of the more important matters in this issue, with the object of showing at a glance what has happened during the week. See also "Contents" in the first column.

FOR THE LATEST store prices and quotations see p. 212.

NEW FACTS in regard to radium are reported on p. 229.

MR. C. B. BELL, a well-known Hull chemist, died on Tuesday (p. 219).

THE ITALIAN PHARMACY BILL is causing some anxiety (p. 232), but we learn that the Italian Government is not to go on with it (p. 227).

THE FESTIVE SEASON is still with us. Several pages in this issue (beginning p. 232) are occupied by reports of dances, dinners, and the like.

UNTIL CIVIL HOSPITALS place dispensers on their staffs, military hospitals cannot give their compounders commissions, says Major Freeman (p. 244).

THE SPECTACLE-MAKERS' COMPANY'S DIPLOMAS have been dealt out rather slowly, and there are still complaints which we emphasise in a critical note on p. 227.

WHEN was the first prescription for cascara sagrada dispensed in this country? Mr. C. B. Allen dispensed one on October 29, 1880. Can anyone beat this? (p. 244).

THE MANUFACTURE OF GUNCOTTON was the subject of a lecture by Sir Frederick Nathan at the meeting of the Society of Chemical Industry in London this week (see p. 222).

THE REGISTRAR-GENERAL for England and Wales, reporting on 1907, shows *inter alia* that deaths from scheduled poisons decreased decidedly. We deal with his report on p. 226.

DR. BALFOUR MARSHALL, the Government Visitor to the pharmaceutical examinations in Edinburgh, suggests that "honours" or "distinction" should be given to Minor candidates who pass well (p. 231).

THE NUMBER OF CHEMISTS on the register in Great Britain has fallen to 15,967, while 406 students of pharmacy were registered last year—the largest number since the new Preliminary examination was instituted (p. 230).

THE WINTER SESSION of Chemists' Associations has resumed its full measure of activity. We report nearly twenty meetings this week, and the formation of a new association at Portsmouth. The reports are prefaced with a portrait of Mr. W. F. J. Shepheard, Ph.C., F.C.S., President of the Chester Association (p. 235).

MARKET FLUCTUATIONS do not include anything of first-class importance this week. Bromides are firm and prices are likely to remain unchanged, for reasons given in our trade report. Otherwise the bulk of the changes are in buyers' favour, these including castor oil, copper sulphate, cocoa butter, ergot, Jamaica ginger, hydrastis, and turpentine (p. 239).

THE POISONS AND PHARMACY ACT continues to receive more intimate attention. Local associations are trying to advise local authorities in regard to the new licences (pp. 235-8), and already two Councils have dealt with the matter (p. 212). We deal with the examination and registration provisions, showing from past resolutions what may be expected (p. 224), and some more problems are dealt with on pp. 245-6.

THE IRISH TROUBLE over the failure to get Ireland adequately dealt with in the Poisons and Pharmacy Act has reached a head. A deputation from the companies was received by the Pharmaceutical Council on Wednesday (p. 214). The Chemists' and Druggists' Society of Ireland held a meeting about the matter last week, when some statements by Mr. W. F. Wells were challenged. This is fully reported on p. 221. Letters on different aspects of the subject are printed on pp. 242-3.

JUBILEE OF THE "C. & D."

OUR Summer Issue of July 31, 1909, will be the Jubilee number of the *C. & D.* Any readers who remember the publication of the first number in 1859 would oblige by communicating with the Editor.

POISONS SCHEDULE ON A CARD.

WE have now ready a card showing on the front page the Schedule of Poisons and other poisons provisions which will come into force on April 1; on the back is a supplementary list of poisons. The card is eyeleted to hang up, and will be found most convenient and useful in every pharmacy or wholesale house. Post free for six penny stamps on application to the Book Department, 42 Cannon Street, London, E.C.

English News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

A formalin apparatus is to be installed at the City of London mortuary for the preservation of unidentified corpses.

At a recent meeting of the Hairdressers' Guild, Mr. W. Partridge, F.I.C., discoursed on "Poisons," but his paper contained nothing of direct interest to our readers.

The Royal Photographic Society has awarded the progress medal for 1909 to the brothers Lumière, of Lyons, for their discovery of the autochrome process of colour-photography.

The stock-in-trade of the late Mr. George Hodson, chemist and druggist, Elland, was sold by auction last week. It was first offered in one lot, but subsequently sold by instalments.

Mr. W. G. Lewis, I.S.O., Chief Surveyor-General of Customs, has been appointed Secretary to the Board of Customs, in succession to Mr. R. Henderson, C.B., who has been appointed a Commissioner.

At a Clerkenwell inquest on February 2, it was stated that the death of an infant was caused chiefly by the inflammation set up as a result of using a strongly alkaline bleaching-liquid for washing the child's clothes.

A lady has placed the sum of 10,000*l.*, anonymously and unconditionally, at the disposal of the managers of the Royal Institution for the furtherance of its objects. Dr. K. C. E. von Martius has been elected a member of the Institution.

A fire broke out in the melting-house at the Silvertown Soapworks of Messrs. John Knight & Co., Ltd., London, E., on February 2. The flames from the burning fat created an intense heat and rose to over 100 ft. high. It is computed that damage to the extent of 10,000*l.* was done before the firemen got the flames in hand.

The Whitgift School, Croydon, and King's College School, Wimbledon, have been recognised by the examining body of the Royal College of Physicians of London as institutions for instruction in chemistry and physics. The Portsmouth Technical Institute has previously been recognised for these subjects, and is now recognised also for biology.

Mr. Frederick Kilner, director of Messrs. Kilner Bros., Ltd., bottle-manufacturers, London and Yorkshire, has recovered 400*l.* damages from the London United Tramways, Ltd., in respect of personal injuries which he sustained on August 30, 1908, when a passenger on the London to Dorking coach, which collided with a tramcar at Kingston. The case was heard by Mr. Justice Phillimore and a special jury in the King's Bench Division, and decided on Monday, February 1. Mr. Kilner was an amateur whip and was thrown from the box-seat and suffered injury to the pelvic and pubic bones.

At the inquiry respecting the death of Mr. L. S. Bentley, chemist and druggist, who was found dead at his residence at Collingham, on January 30, neither the housekeeper nor his brother, Mr. J. R. Bentley, chemist and druggist, was able to throw any light on the cause of his death. Dr. Hargreaves said the *post-mortem* examination revealed evidence that an irritant had been swallowed, and the inquest was adjourned for an analysis of the stomach-contents. A close friend of the deceased had shot himself several days previously, and Mr. Bentley was found with his hand resting on the page containing Rudyard Kipling's "L'Envoi" in "The Seven Seas," a poem descriptive of a glorious hereafter.

Poisons and Pharmacy Act, 1908.

At the weekly sitting of the London County Council on February 2, the General Purposes Committee reported on the Poisons and Pharmacy Act of 1908, and it was decided to refer the Act to the Public Control Committee.

The Bridlington Town Council decided on January 27 to acquiesce with the request received from Mr. J. B. Purvis, pharmaceutical chemist, that, as all reasonable demands of the public are already amply met, no licences should be granted by the Corporation for the sale of certain poisonous substances used in agriculture and horticulture under Section 2 of the Poisons and Pharmacy Act, 1908.

Society of Apothecaries of London.

At the Assistants' examination, held in January, the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:

Abbott, P. M.	Harrington, A. F.	Payne, G. E. M.
Ashmore, E. W.	Hobson, A. E.	Poulton, A. J.
Baker, M.	Husband, H. M.	Sproulle, E. M.
Behrendt, M.	Ishmael, E. J.	Stephenson, A.
Bell, T.	Lister, A. N.	Turner, F.
Bond, E. S.	Middlemiss, M.	Vickers, A.
Gething, E. E.	Nicholls, K.	Westlake, A.
Graham, G.	Paterson, M. A.	Williams, E. V.
Green, S. W.		

Association of Chambers of Commerce.

The annual meeting of the Association of Chambers of Commerce of the United Kingdom will be held at the Hôtel Métropole, Whitehall Place, S.W., on March 2, 3, and 4, the chair to be taken by the President (Lord Brassey). Resolutions on the following (among other) subjects will be submitted: Foreign tariff schedules, French Customs tariff revision, Anglo-French treaty of commerce, commercial travellers' licences, false marking of goods, Patents and Designs Amendment Act, seizure of goods under the Merchandise-marks Act, piracy of trade-marks, Companies Act, 1907, trade accounts of the United Kingdom, foreign parcel-post, rating of machinery, railway rates—owners' risk, light dues, etc.

The Royal Radium Institute.

Sir Frederick Treves, Bart., has, in conversation with a Press representative, stated that this new Institute was instigated by the King, and the possibility of carrying it out was ensured by funds provided by Sir Ernest Cassel and Lord Iveagh. A site has been obtained in a convenient part of the West-end where the necessary building will be erected. The Committee which has been formed consists of Sir Frederick Treves, a member to be nominated by Sir Ernest Cassel and one by Lord Iveagh, Sir William Ramsay, K.C.B., the Hon. R. J. Strutt, Sir J. J. Thomson, and Sir Malcolm Morris, K.C.V.O. A superintendent has been appointed and a director of the laboratory. The intention is to treat both necessitous and well-to-do patients—the former, of course, free of any kind of expense and the latter at such fees as they can afford to pay. It is designed for both curative and research purposes. The laboratory for research will be used to conduct experiments in radium with special reference to its application as a cure for disease.

Store-prices.

The Army and Navy Stores circular for February contains the following alterations and additions:

Advanced.—Bergamot essence, per bot. 1*s.* 4*d.*

Reduced.—Camomile flowers 2 oz. 2*d.*, lb. 1*s.*; Jeyes' toilet-paper, per pkt. 3*d.*, per doz. pkts. 2*s.* 7*d.*

Added.—The "Clino-aseptic" all-glass hypodermic syringe, 4*s.* 9*d.* each; Empire Vibrator, No. 1 5*l.* 18*s.*, No. 2 8*l.* 18*s.*; Flowers of Oxzoin, per bot. 1*s.* 11*d.*; Fermenlactyl, per box 2*s.* 6*d.*; A. & N. formaldehyde and menthol tablets, per bot. (50) 9*d.*; Lavona de Composée, per bot. 1*s.* 6*d.*; Lacteol, "Boncard," per box 3*s.* 4*d.*; Mayzone Hair-restorer, per bot. 2*s.* 3*d.* and 4*s.*; Marienbad salts, per bot. or in powder 2*s.* 4½*d.*, in box of 20 5-gram powders 1*s.* 8*d.*; "Natural" curative electrical massage, each instrument 22*s.* 6*d.*; Perles Maigrettes, per box 2*s.* 3*d.* and 4*s.* 2*d.*; Velvex preparations—lotion, per bot. 1*s.* 11½*d.* and 3*s.* 5*d.*, powder, per box 1*s.* 5½*d.*, beauty cream, per jar 1*s.* 2½*d.* and 2*s.* 5½*d.*; toilet-cream, per jar 11½*d.* and 1*s.* 11½*d.*; skin-food, per jar 4*s.* 11*d.* and 7*s.* 3*d.*; Zotos, per pkt. 2*s.* 7*d.*

School-children's Spectacles.

The Board of Education, in writing to the Acton Education Committee, state that the committee will have to satisfy the Board as to the following conditions before they agree to the provision of spectacles to poor school-children: That the provision of spectacles is the best way of meeting the defect; that the spectacles are to be strictly appropriate to the optical needs of each child, and are inexpensive; that

no local voluntary agency exists which the local authority would encourage and assist before undertaking the supply themselves. Leave of absence was granted for two mornings a week to Dr. Lilian Wilson in order that she might attend a hospital to specialise on sight-testing.

Royal Commission on Tuberculosis.

The third interim report of this Royal Commission was published last week. It contains an account of experiments which have been carried out regarding the infectivity of the milk and fæces of cows which have contracted the disease in the ordinary way. The conclusions are that the presence of tuberculous cows in company with healthy cows in the cowshed is distinctly dangerous, as some of the tubercle bacilli which escape from their bodies in the excrement are almost certain to find their way into the milk.

Foreign Patents in England.

According to "Nature," about twenty new works have been erected in this country owing to the passing of the Patent and Designs Act, and independent of these a large number of licences have been granted to British firms.

It is proposed to form in the City of London an organisation to assist in securing the enforcement of the provisions of the Patents and Designs (Amendment) Act, 1907, which deal with the working of foreign patents in the United Kingdom. It is stated that there are at present 30,000 foreign patents in this country which are unworked, and they will remain effective unless they are challenged individually. It is suggested that the Chamber of Commerce should be asked to undertake the organisation of the proposed new association.

London Chemists' Golf Club.

A club with this name was formed at a meeting held at the Albion Hotel, Ludgate Circus, on January 28, Mr. Alec Boyes in the chair. Mr. J. Jones was elected Captain and Mr. Wm. Duncan Secretary. A committee was elected to carry out further arrangements and to report progress at a meeting to be held in the Albion Hotel on Thursday, February 11, at 8 P.M., when it is hoped golfing chemists will make special effort to be present.

Blackburn Notes.

Mr. C. A. Critchley, Ph.C., 10 King William Street, addressed a Rishton Literary Society on "The Smallest Plants that Grow," in consequence of which other similar bodies in the district are pressing him to read them a paper.

Mr. Mark Walter Tomlinson, chemist and druggist, the newly appointed Secretary of the North-East Lancashire Chemists' Association, manages the Eanam shop of Mr. W. H. Grimshaw, of Darwen Street. He served his apprenticeship with Mr. Johnson, Ph.C., Coronation Street, Blackpool, and qualified in London about three years ago, after studying under Mr. G. S. V. Wills.

At the annual meeting of the Blackburn Traders' Association, with which is affiliated the N.E. Lancs Chemists' Association, Mr. W. Holt was elected Vice-President, and Messrs. R. L. Gifford and M. W. Tomlinson were appointed on the committee of the tradesmen's organisation. The new President is Councillor W. Kenyon. Mr. Holt and Mr. Tomlinson are respectively President and Hon. Secretary of the N.E.L.C.A. On the question of shop-hours, the Association recommended the National Chamber of Trade to petition for compulsory legislation, and also for local, in preference to national, control.

Contracts.

Blean (Kent) Rural District Council.—Messrs. Walker & Harris, chemists, Sun Street, Canterbury, for disinfectants.

Mr. T. B. Cornfoot, chemist and druggist, 25A Mortimer Street, Herne Bay, has been re-appointed optician to the Queen Victoria Memorial Cottage Hospital, Herne Bay.

St. Pancras Borough Council.—Messrs. Adcock, Easton & Co., for soluble creosote disinfectant-fluid, at 6*d.* per gal.; pine disinfectant-blocks in tins, at 1*l.* 2*s.* per cwt.; and carbolic powder, at 2*l.* 9*s.* per ton. Messrs. Burt, Boulton & Haywood, for pine disinfectant-fluid, at 8*d.* per gal.

Galemire Joint Hospital, Whitehaven.—Messrs. Harrington & Nicholson, 21 Lowther Street, Whitehaven, for chloride of lime, at 7*s.* per cwt.; sulphur candles, at 23*s.* 6*d.* per cwt. and 30*s.* per gross; Jeyes' fluid, at 3*s.* 11*d.* per gallon; pure liquid carbolic acid, at 1*s.* 3½*d.* per lb.; camphorated oil, at 1*s.* 7*d.* per lb.; olive oil, at 7*d.* per lb.; glycerin, at 1*s.* per lb.; vaseline, at 9*d.* per lb.; methylated spirits, at 3*s.* 6*d.* per gallon; boracic acid, at 9*d.* per lb.; crushed linseed, at 20*s.* per cwt.; turpentine, at 3*s.* 6*d.* per gallon; bovril, at 11*s.* per dozen 2-oz. bottles; lint, at 1*s.* 5*d.* per lb.; absorbent cotton-wool, at 1*s.* and 1*s.* 2*d.* per lb.; Scott's emulsion, at 3*s.* 8*d.* per 4*s.* 6*d.* bottle; carbolic oil, at 11*d.* to 1*s.* 1*d.* per lb.; hospital charts, at 3*s.* 6*d.* per 100; carbolic soap, at 4½*d.* per lb.; compound liquorice-powder, at 1*s.* 9*d.* per lb.; sanitary rolls, at 3*s.* to 5*s.* per dozen.

Liverpool Progress.

The annual general meeting of the local Chemists' Association held last week was (writes an occasional correspondent) exceptionally interesting. It was the first opportunity for reducing the unwieldy Council of twenty-one (a relic of Jacob Bell's time) to ten, and a goodly number of members gathered to "see the fun" or participate in it. Before the election of the Council was reached, Mr. Moreton Parry asked what had become of the annual report, and after some perturbation the situation was saved by the suggestion of a member that the omission was evidently one of accident and not design. The general applause which greeted this declaration brought "peace with honour." The next items of importance were proposed amendments to the new rules by the President and Dr. Symes. These amendments were put to the meeting, and were on the point of being adopted when Mr. T. F. Percival intervened, submitting that the election should take place first, seeing that voting-papers had been issued and returned, so that it was necessary to complete the process under the existing rules, and not complicate it with new ones. Ultimately Mr. Dutton moved, and Mr. Harold Wyatt seconded, that they proceed to the next business on the paper—namely, the election of President, Vice-President, Secretary, and Treasurer, all of which appointments were unanimously approved. Then the voting-papers for members of Council were collected. During the counting of votes the discussion on the new amendments was resumed, the President moving their adoption and Dr. Symes seconding. A long and intricate discussion followed, which terminated with the adoption of an amendment by Mr. Percival to remit to the Council to appoint a small committee to undertake the complete revision of the rules and by-laws of the Association. The voting for the new Council resulted in defeat of the "progressive" party so far as their individual return is concerned, but they claim that their principles have been publicly endorsed by almost every member of the new Council.

Sheffield Notes.

A meeting of the Council of the Sheffield Pharmaceutical and Chemical Society was held on Monday evening last for the consideration of the programme for the remainder of the session.

At a very successful whist-drive, held in the saloon of the Nether Edge Proprietary Bowling Club on Thursday evening last week, the second prize for ladies was presented by Mr. J. Gilbert Jackson, chemist and druggist, of Abbeydale Road.

The Sheffield Pharmacy Athletic Club gave a ball at the Imperial Rooms, on Thursday evening, January 28. The music was provided by Mr. C. Callum's band. About ninety guests were present, and were welcomed by Mr. Percy Carr, President of the club. Among the company were Mr. and Mrs. J. Gilbert Jackson, Mr. J. T. Appleton, Mrs. Wynn, Mr. and Mrs. Bernard Ellis, Mr. H. G. Williams, Mr. and Mrs. Hewitt, and Mr. and Mrs. Allcock. Messrs. Carr and Lansdell were M.C.'s. As a relief to the dancing exercise, whist tables were provided, and there was some good play.

Poor-law Dispenser for Forty Years.

Mr. T. G. Ashton, chemist and druggist, dispenser to the Paddington Union since 1869, has tendered his resignation owing to failing health. The Guardians, in accepting the resignation, decided to accede to Mr. Ashton's request for leave of absence in April and May, as during his forty years' service he had only been granted leave of absence once—in 1888. Mr. Ashton will receive a superannuation allowance. Steps are being taken to fill the vacancy.

Sale of Food and Drugs Acts.

One sample of cream of tartar was taken for analysis in Staffordshire during last quarter. It proved to be genuine.

The Wandsworth analyst (Dr. J. Muter) reports on the following samples: Compound liniment of camphor (4) and camphorated oil (2). All were certified to be genuine.

The St. Pancras public analyst reports that the following samples examined during the past quarter were all genuine: Arrowroot (5), brandy (1), camphorated oil (3), glycerin (5), mustard (6), olive oil (2), and pepper (10).

The Camberwell public analyst (Dr. F. Teed) states in his quarterly report that fourteen out of twenty-three samples of liniment of ammonia were below B.P. standard. The report further states that one only out of the twenty samples of olive oil submitted was adulterated. It contained 50 per cent. of cottonseed oil, but the vendor successfully pleaded a warranty. Other articles reported on are ginger-wine (1) and camphorated oil (2), all of which were genuine.

The Paddington public analyst examined the following samples during the quarter: Olive oil (2), ammoniated tincture of quinine (2), sweet spirit of nitre (2), and one each of black-currant, ginger, and raisin wine. All of them were certified as genuine. The wines contained 17 to 23 per cent. of proof spirit, but were free from other preservatives (salicylic acid, etc.). Four samples each of drugs and wines and two of lime-juice cordial were among the genuine articles in the 604 samples submitted for analysis during the year.

Personation: Warning.

A man has been calling upon chemists in Lincoln asking for assistance. He states that he is a chemist and has seen better days, etc.; also that his name is Falkingbridge, and hails from Whitby, Yorks, where he had been in business for some years and had unfortunately failed. Incidentally he poses as a twice-married man, has no money, is on the road, and asks for monetary assistance. He is about 5 ft. 2 in. in height, age about forty-five, has a short pointed beard, and wears a cap and short fawn covert coat. One of the chemists upon whom he called happens to know Mr. Falkingbridge, of Whitby, well, where he is still in business; and the impecunious caller is an impostor. The man seems to be familiar with the chemists' register, where he has a big choice of names, and his description should, therefore, be noted.

Thefts.

At Lincoln on January 30, Ernest Reddy was sentenced to one month's hard labour for stealing 10*s.* belonging to Mr. D. S. Wark, chemist and druggist, 370 High Street, Lincoln. Prosecutor stated that the accused was placed in charge of his Ripon Street establishment but absconded after five days. The prisoner was arrested in the workhouse.

At Bolton Quarter Sessions on January 20, Thomas Smith (27), labourer, was sentenced to four months' imprisonment with hard labour for breaking into the premises of Messrs. H. B. Pare & Co., Ltd., chemists, 89 Deansgate (*C. & D.*, January 16, p. 72). The prisoner said an attack of diarrhœa was the reason he entered the shop.

A daring robbery was perpetrated at the shop of Mr. J. B. Williams, chemist and druggist, 44 Brook Street, Chorlton-on-Medlock, which is a Manchester branch post-office. Entrance was apparently gained by means of false keys, and a safe about 2 ft. high and 20 in. wide, containing nearly 40*l.* in cash and several hundreds of pounds in postal orders, was carried away in a cart which the thieves had at their disposal. The safe has since been discovered with the back wrenched off and the contents removed.

"They Buy Soap."

A letter in the correspondence columns of the *C. & D.* for January 9 (p. 66), under the above title, has been the means of arresting the two foreigners who go into chemists' shops to make purchases of soap, and by "ringing the changes" obtain various sums of money, two such cases having been already recorded. One of the latest victims of the trick is Mr. G. N. Edwards, chemist and druggist, 47 St. Nicholas Street, Ipswich, who says the men managed to "do" him in a manner he did not expect, and they were out of sight before he discovered what they had done. However, prompt information to the police, who were given a copy of The Chemist and Druggist containing their description, enabled a warrant to be issued, and the men were arrested as they got into the 6.28 p.m. train for Norwich. The names and addresses which the prisoners gave when charged at the police station were Charles Scheffer (43), traveller, 111 Hallam Street, Portland Place, London, W., and Marcelle Berthelot (25), artist, 13 rue St.-Denis, Crepy-au-Valois, France. At a special Sessional Court on February 2 the prisoners were remanded in custody on a charge of stealing the sum of 19*s.* 3½*d.* from Mr. G. N. Edwards. Several other charges are pending, as they appear to have visited four other tradesmen in the town. This is the second time the columns of the *C. & D.* have aided Mr. Edwards to identify the wrongdoer. The former instance was of a man who hired cameras and borrowed a boy.

Sir T. Barclay and Birmingham.

Speaking at the nineteenth annual dinner in connection with the Birmingham and Midland Tyneside Club, Sir Thomas Barclay said Birmingham men had always been renowned for great individuality of character and for the courage of their convictions. In olden days, when other great towns were high Tory, Birmingham was violently Radical, and then when the other great towns became Radical she sent seven men to Parliament to support the Tories. Sir Thomas referred to the many illustrious citizens of Birmingham who ranked among the nation's most prominent theologians, scientists, artists, and authors.

Analyst's Appointment.

Mr. J. K. Colwell, F.I.C., F.C.S., was appointed public analyst to the borough of St. Pancras at the meeting held on February 3, at a salary of 300*l.* per annum, for 750 samples, with an additional fee of 7*s.* 6*d.* for each further sample submitted. The other conditions have been already given (*C. & D.*, 1908, II., p. 923). Three candidates were selected from the twenty-eight applicants, and the first ballot resulted as follows: Mr. J. K. Colwell, 28 votes; Mr. C. H. Cribb, 8; and Mr. E. Hinks, 18. The final ballot resulted in Mr. Colwell receiving three votes more than Mr. Hinks. Mr. Colwell, who is forty-three years of age, is already analyst to the Boroughs of Bedford (1890), Finsbury (1891), Holborn (1893), and the County of Bedford (1908). He was formerly an assistant to Sir E. Frankland and Professor P. Frankland, and was also with Dr. Wynter Blyth.

Grocers and Poisons.

At the annual meeting of the South Wales Grocers' Council on January 28, Alderman Hinton, President of the Grocers' Federation, in referring to the Poisons and Pharmacy Act, maintained that Parliament had no right to give one class of tradesmen a monopoly, while both he and Mr. A. J. Giles (the Federation Secretary) urged the importance of grocers, particularly in the country districts, taking care that they were properly registered to sell sheep-dips and weed-killers.

Irish News.

Companies' Apprentices.

As a result of the meeting of directors of chemist companies held in Dublin on Thursday, January 28, communications were established with the President of the Pharmaceutical Society, and it was decided that a deputation representing the companies should be received by the Council on Wednesday, February 3. It is hoped that a *modus vivendi* may be found.

Rennet-wine.

In an obituary notice in the "Times" regarding the late Dr. George Ellis, a Dublin surgeon, who died on January 28, aged 100, it is stated that in an article in a medical journal he recorded the benefit he had derived from a remedy, which he prepared and called "Rennet-wine," for gastric derangements of the stomach. The remedy consisted of some pieces of the stomach of a freshly killed calf, which he put into an ordinary wine-bottle. This he filled with sherry, and let

it remain corked for three weeks, when it was fit for use. He strongly advocated its use, and especially among medical men themselves, who, he said, "were very liable to suffer from gastric trouble through worry of mind and body and irregular hours for meals and sleep." Dr. Ellis retired from practice forty years ago.

Scots News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Personal.

Mr. P. A. Abel, chemist, Inverurie, has been appointed chemist to the Lilac Lodge of the British Order of Ancient Free Gardeners.

Mr. John Strachan, chemist, Jedburgh, has been recently appointed Chairman of the Jedburgh Unionist Club. In addition to taking a keen interest in public affairs, Mr. Strachan finds time to give occasional lectures on Practical and Theoretical Chemistry to the local Literary Society.

Glasgow.

Premises have been secured in Berkeley Street, near Charing Cross, for the housing of the Glasgow Homœopathic Dispensary. The institution has been added to the Charity Organisation list.

One of the pictorial effects deemed by the local Press as worthy of particular mention among the efforts displayed at the Exhibition of the Glasgow and West of Scotland Amateur Photographic Society is "The Shore Road," in Class V. (for any subject), by Mr. Archibald N. White, who was also awarded a bronze plaque by the Society for this exhibit. Mr. White is the West of Scotland traveller for Messrs. Harkness, Beaumont & Co., wholesale druggists, Edinburgh.

Dr. W. H. Lang, M.B., Lecturer in Botany at the Glasgow University, has been appointed to the new Chair of Cryptogamic Botany at Owens College, Manchester. The new Professor was educated at Dennistoun School and Glasgow University, at which latter place he became a research scholar. He also worked at the Jodrell Laboratory, Kew Gardens, and travelled in Ceylon and the Malay Peninsula, collecting and studying the cryptogamic flora there. Dr. Lang specialises in the Bryophata, which includes the moss group on which the late Professor Barker (by whose bequest the Chair is endowed) specialised.

Edinburgh.

The annual general meeting of the Edinburgh and Leith Traders' Defence Association was held on Thursday evening, January 28, in the Freemasons' Hall, George Street. Mr. W. S. Glass, Ph.C. (President), occupied the chair.

The estates of John Napier Spence, chemist, 29 Broughton Place, Edinburgh, were sequestrated by the Lord Ordinary in the Court of Session on February 1, and a meeting of the creditors, to elect the trustee and commissioners, will be held at 51 George Street, Edinburgh, on February 10 at 11 A.M. Agents: Garden & Robertson, S.S.C., Cassels Place, Leith.

Cough lozenges and mixtures and liquorice are prominently displayed just now. There was a chemist in one of the smaller Scots towns who gained a splendid advertisement and the synonym "Imperial George," which he still laughingly acknowledges, because his window-show at Queen Victoria's death consisted entirely of liquorice. His fellow-townsmen imagined that the display, a lucky coincidence, was a token of respect.

At the annual general meeting of the Royal Public Dispensary on January 30, it was stated that the institution was founded one hundred and thirty-two years ago, and it is ninety years since it obtained a Royal Charter. During the past year 8,178 of the sick poor of the city and neighbourhood had been provided with advice, assistance, and medicines free of charge. Mr. William Duncan, Ph.C., F.C.S., is pharmacist to the Dispensary and director of the School of Pharmacy carried on in connection with it, having succeeded Mr. J. Rutherford Hill in these positions in 1886.

The Edinburgh Pharmacy Football Club engaged in a friendly game with the football team of the 7th V. B. Royal Scots on Saturday last at Inverleith Park. The following represented the Pharmacy Club:

Keddie
Stewart Margach
McBain Winton Forsyth
Young Mein Mallen Mark Sullivan

After a hard game the Volunteers won by 3 goals to 2. This is the first defeat the Pharmacy Club has sustained this season.

French News.

(From the "C. & D." Paris Correspondent.)

Customs Tariff Revision.—A list of the proposed changes in the Customs classification and duties, so far as regards the chemical and drug trades, was given in our Coloured Supplement, January 23 (p. 66), but British manufacturers and exporters should take note of the fact that it is desirable to insert in any contracts of long duration made with buyers in France a clause providing for the risk of any change of duties that may be comprised in the revision of the French Customs tariff.

Wholesale Poisoning.—The trial of Jeanne Gilbert at Bourges, on the charge of poisoning nine persons, of whom four died, to which reference was made in the *C. & D.* of last week, terminated by the jury finding a verdict of guilty, with extenuating circumstances. The accused was condemned to hard labour for life. An interesting part of the case was the *rôle* the poison-registers of the pharmacists from whom the prisoner had purchased arsenic occupied in the evidence. By their means the purchases were proved, in spite of Mme. Gilbert having on several occasions purchased under false names.

Excise Regulations.—Some fears were expressed that certain new Excise regulations (embodied in the Law of Finances) which require denaturised spirit to be kept in separate premises, etc., might be interpreted in a manner capable of causing annoyance to pharmacists. The General Association of French Pharmacists, in conjunction with the Druggists' General Syndicate, approached the authorities on the subject. M. Martin, Directeur-General of Excise, has replied that the denaturised-alcohol regulations simply refer to methylated and other spirits used for heating, lighting, or motor power, and that the rules do not apply in any way to pharmaceuticals. As to the permits, or *laissez passer*, regarding which inquiry was also made, these will be issued at the nominal charge of one penny.

Olive-oil Congress at Toulon.—The first International Congress for the cultivation of the olive and the manufacture of olive oil, convened by the French pressers and cultivators, recently took place at Toulon. Almost all those European States which cultivate the olive were represented. The questions of the adulteration of the oil and the diseases peculiar to the olive were discussed, though the former question was fraught with difficulties as the representatives of the producers were in favour of a very limited acceptation being given to the term "olive oil," while the delegates of the large industrial districts, such as Marseilles, considered that a mixture of corn oil with the pure product was quite acceptable. No decision was come to, a definite conclusion being reserved for a future Congress which is to take place in Rome in 1911, at the invitation of the Italian Government.

The Franco-Canadian Convention.—As the result of negotiations carried on by Mr. Fielding, who has been acting in Paris for some time past as special representative of the Canadian Government, a supplementary convention has just been signed between France and Canada. The text, however, will probably not be made public until it has been laid before the Chamber of Deputies; but it is understood that various concessions of a favourable character have been made, though they will probably be found to affect only articles of minor importance. This supplement is evidently a document of interest, as it may remove an awkward deadlock, for it must be borne in mind that the original Franco-Canadian treaty (which contains various items of pharmaceutical interest) was signed some eighteen

months ago, and was passed by the Chamber of Deputies in September 1907. Since then it has been blocked by the French Senate, who apparently wanted additional concessions of a comparatively slight nature. The document has to be submitted to the Chamber of Deputies and afterwards (with the original Convention) to the Senate; but no serious hitch is contemplated, and it is even hoped that the Convention may be ratified before the debate on the new Customs Tariff comes before Parliament next month, which did not seem probable up till now.

Australasian News.

The fullest information regarding the Australasian drug-trade and pharmacy is given in "The Chemist and Druggist of Australasia," copies of which can be obtained at 6d. each, post free, from the office of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

New South Wales.

Opium Sale.—The Police Offences Amendment Act, 1908, came into force immediately on its passage through Parliament (see *C. & D.*, January 23, Col. Supp.), and on December 22 the first case under it was heard. William Dyer was charged before the Water Police Court in Sydney with having in his possession twenty tins of opium, each half a pound, he not being registered under the Poisons Act, 1902. He pleaded guilty, and his solicitor asked that he be dealt with under the First Offenders Act. He was fined 25*l.*, or, in the alternative, four months' imprisonment. In this case the Registrar of the Pharmacy Board was in court, and proved that the accused was not registered under the Poisons Act. In future prosecutions any person accused will have to produce a certificate from the Registrar in order to clear himself.

The Pure Food Bill was further discussed in the Legislative Council on December 11. An amendment was carried adding the words in italics to clause 17, which now reads:

> The Governor, on the recommendation of the Board or of a District Court Judge on appeal, may by notification in the "Gazette" prohibit after the date therein mentioned the advertising or sale of any food or drug or appliance which in the opinion of the Board or of the said Judge is injurious to life or health, *or by reason of its inactivity or inefficiency is useless for the advertised purpose of cure.*

Another amendment allows the notification to appear in the "Gazette" and in any newspaper circulating in New South Wales. Further protection is given to the proprietors of articles which may be condemned by the Board, and it is provided that no report shall be published or prohibition made pending the appeal of the proprietor to the District Court Judge.

Colonial and Foreign News.

Trinidad Pharmaceutical Society.—A meeting of the above Society was held at the Victoria Institute, Port of Spain, on December 30, 1908, when the Secretary (Mr. Geo. C. Dieffenthaller) read his report for the year. The election of officers for the ensuing year resulted as follows: President, Mr. Lewis O. Innes; Vice-President, Mr. Walter H. Mills; and Hon. Secretary and Treasurer, Mr. Bartholomew F. Miles. The retiring President is Mr. John G. Ferrier, Ph.C., F.C.S.

The Camphor Monopoly.—A report that the business of the Imperial Camphor Monopoly is to be transferred to the Formosan Government is denied by Mr. T. Hamaguchi (the director of the Japanese Monopoly Bureau) as entirely baseless. According to the "Hochi," Mr. Hamaguchi states that the profit of the camphor monopoly for 1908 is estimated at about 60,000 yen, but owing to the depression in the camphor-markets in Europe and the United States this profit may not be realised. The business of the camphor monopoly in Japan is carried on at the salt and tobacco monopoly offices (with the exception of the Kobe Camphor-works), so that it involves but a small expense.

Proprietary Medicines in the Argentine.—The Argentine Republic has issued new regulations dealing with the sale and importation of proprietary preparations, patent remedies, and "specifics" for internal or external use. In future permission will have to be obtained from the Board of Health to sell any preparations of this description, whether imported or prepared in the Republic. Applications directed to the Board must be accompanied by a sufficient quantity for analysis, with an exact statement of the ingredients, and a set of labels, wrappers, or leaflets used in connection with the preparation. A short description of the special properties must also be furnished. The label must bear the formula, and name and residence of the manufacturer. After the Government fees have been paid, the result of the analysis will be placed before a committee of three officials, who will give a final decision whether the remedy will be admitted for sale or not. This committee is vested with the right to decide in what papers or manner of advertising the preparation may be made known to the public.

Opium Importation.—A Bill has passed the U.S.A. House of Representatives and the Senate prohibiting the importation of opium into the United States except for medicinal purposes. The following is the principal clause:

> If any person shall fraudulently or knowingly import or bring into the United States or assist in so doing any opium or any preparation or derivative thereof contrary to law, or shall receive, conceal, buy, sell, or in any manner facilitate the transportation, concealment, or sale of such opium or preparation or derivative thereof after importation, knowing the same to have been imported contrary to law, such opium or preparation or derivative thereof shall be forfeited and shall be destroyed, and the offender shall be fined in any sum not exceeding $5,000 or less than $50, or be imprisoned for any time not exceeding two years, or both. Whenever on trial for a violation of this section the defendant is shown to have, or to have had, possession of such opium or preparation or derivative thereof, such possession shall be deemed evidence sufficient to authorise conviction unless the defendant shall explain the possession to the satisfaction of the jury.

Tariff Revision.—A. and F. Pears, London, have submitted to the Ways and Means Committee the following arguments regarding the duties on toilet soap:

1. That there is no necessity for protection for American manufacturers of toilet-soap, as they can procure raw materials cheaper than English makers.
2. That American toilet-soaps are sent freely to the English market.
3. That so far as our trade with America is concerned, the profit to the American people has been much more than anything we have made in the whole of the time—nearly thirty years—during which we have had depots in their country, the expenditure on rent, commission, printing, newspaper and magazine advertising, etc., and the cost of travellers, clerks, managers, etc., yielding profit to your community in excess of anything we could make.
4. Further, we contend that American interests are considerably injured by the duties, as we should be able to bear a much larger expenditure in the United States for travellers, advertising, printing, agency expenses, etc., if our goods went in at a moderate duty or, more sensibly, free.

The O.R.C. Medical and Pharmacy Council held its monthly meeting in the Public Health Buildings, Bloemfontein, on January 8. Dr. A. B. Ward (President) presided, the other members present being Drs. Bidwell, De Kock, Johnson, Pratt-Yule (M.O.H.), and Swift, Mr. Redpath (dentist), and Messrs. Hewitt and Jeffreys (chemists). The registration of Mr. Vaughan Rycroft Raywood, chemist and druggist (Great Britain, 1898), was approved. The Board of Examiners for the Chemist and Druggist examination in February were appointed as follows: Prescription-reading, Drs. De Kock and Bidwell; chemistry and physics, Professor Badge, of Grey College, and Mr. Horace Weall, assistant public analyst; botany, Dr. Potts, of Grey College; materia medica, pharmacy, and dispensing, Mr. John Main and Mr. E. B. Dunkerton. Dr. Ward and Mr. Hewitt, who are retiring by effluxion of time, did not offer themselves for re-election. The discussion on the report of the sub-committee appointed to consider the advisability of regulating the sale of patent and proprietary medicines (*C. & D.*, January 30, p. 140) was adjourned on the motion of the M.O.H. (Dr. Yule), seconded by Mr. Hewitt, to allow of more time for the Pharmaceutical Society and the Medical Society to discuss its provisions.

Legal Reports.

Trade Law.

Offering Original Formulæ.—Mr. Justice Swinfen Eady had before him in the High Court on January 29 the case of Booth's Distillery, Ltd., *v.* Arthur Lane. The defendant was formerly employed as an assistant to his father, who was chief distiller in the service of the plaintiffs' predecessors, and it was alleged that he had written to the plaintiffs asking for employment, and stating that he held "the original formulæ for Booth's gins, orange-bitters, etc.," and that he had had an offer of employment from a foreign firm. The plaintiffs sought an interim injunction to restrain the defendant from selling, transferring, or communicating such formulæ to any person. The defendant denied in court that he had any written formulæ whatever, but his Lordship granted the injunction asked for, and required the defendant to deliver up on oath to the plaintiff company all original formulæ for Booth's gin or cordials, if any, in his possession or control, and pay the costs. The case is interesting to those in the drug-trade as illustrating that proprietary rights in formulæ do not pass to an employé with the knowledge gained in the course of his employment.

High Court Case.

The Gillette Safety Razor.

In the Chancery Division on January 29, before Mr. Justice Swinfen Eady, Mr. T. Tirrell, K.C., moved on behalf of the Gillette Safety Razor, Ltd., for an interlocutory injunction restraining Pellett, Ltd., of Holborn, from exposing for sale safety razors in such a manner as to lead the purchasing public to suppose they were the Gillette safety razors. Counsel said the defendants had imported from Germany, and were selling, razors got up and packed in precisely the same way as the Gillette safety razor, with the sole exception that upon the button or clasp of the box the word "Luna" appeared instead of "Gillette." He produced for the inspection of his Lordship specimens of the two razors as offered for sale, and submitted that the "Luna" razors were so exposed by the defendant company as to deceive the public into the belief that they were the "Gillette" safety razor. He complained that in order to give the "Luna" razor the appearance of the "Gillette" it had been made with a round top to the upper member, despite the fact that the actual blade was made flat, while the blade of the "Gillette" was bent. He argued that the mere difference in the name would not prevent the "Luna" razor being mistaken for the "Gillette."

Mr. Walters, K.C., on behalf of the defendant company, read an affidavit by the managing director repudiating the suggestion that the plaintiffs had any monopoly in the particular way in which they packed and placed before the public the "Gillette" razor. The "Clemak," the "Auto Strop," the "Ever-ready," and other safety razors were all exhibited for sale in similar design and style of get-up, the only distinction being the name of the proprietary firm appearing on the box. The defendant company, counsel urged, were not responsible for the get-up of the "Luna" razors, and had no interest in them except as retail traders. They stocked and sold all kinds of safety razors, and, seeing that they obtained a profit of 7*s.* on the "Gillette," as against 5*s.* on the "Luna" razor, it was a substantial advantage to them to sell the plaintiffs' razor.

His Lordship said it was manifestly a case in which he could not interfere by interlocutory injunction. There was a dispute, and it was a case in which he should direct a speedy trial of the action. He directed delivery of statement of claim within a week, and made no order on the motion, giving leave to apply to advance the action.

Pharmacy Act, 1868.

A Herbalist Fined.

At Liverpool on February 3, before Judge Thomas, Walter Taylor, herbalist and certified nurse, Mill Street, Liverpool, was summoned, under Section 15, at the instance of the Pharmaceutical Society, for selling laudanum, he not being registered under the Act. Mr. C. E. Neald, solicitor, appeared for the Society. It was proved by evidence that on November 20 last defendant sold to an agent of the Society castor oil, paregoric, and laudanum. The latter poison was not labelled, and it was in respect of this that the proceedings had been brought. Defendant denied that he had sold the poison. His explanation was that a woman client was being attended to at the time, and as she complained of pains, defendant's wife, who was also a nurse, fetched a private bottle of laudanum from the kitchen, and it was this bottle which the witness got by mistake. His Honour held that an offence had been committed, and fined Taylor the maximum fine of 5*l.*, with costs.

Spirits Act, 1880.

Methylated-iodine Liniment.

At the Bailieborough Quarter Sessions last week, before Judge Drummond, Mr. John James Gamble, Ph.C., The Medical Hall, Bailieborough, was summoned, at the instance of the Board of Inland Revenue, for an infringement of Section 130 of the Act by permitting iodine liniment sold in his shop to be made with methylated spirit. This was the same case that came before the Petty Sessions on November 2, 1908 (*C. & D.*, November 7, p. 711), when it was dismissed. Mr. H. P. Kennedy, who prosecuted, now said that the reason why it was dismissed was because the defendant was a very popular man locally. Mr. O'Brien proved the purchase, and Mr. R. Rodger, F.C.S., of the Government Laboratories, London, proved the presence of methylated spirit, and stated that in a diluted form it could be used internally as a medicine. The cost of the spirit used was 2*s.* 6*d.* a gallon and of the spirit which should be used 25*s.* to 30*s.* a gallon. The witness was cross-examined as to the medical use of iodine, and if the liniment was a recognised cattle-drug.

Mr. Cochrane submitted there was no case against the defendant. The liniment was in constant use as a cattle-rub and never was intended or prepared for human use or internal use.

The Judge: I consider this a scandalous case. It should not be decided here. This defendant uses a condemned drug because he can make a huge profit of it, and the public are to be poisoned and cheated for his profit. The case should not be decided here. It is of too great public importance. I will state a case for the Superior Court if Mr. Cochrane asks me. I regard the case as one of the greatest importance.

Mr. Cochrane stated his client was unable to pay the costs necessary. The fine of 100*l.* would be ruinous to his client.

Mr. Kennedy stated the fine could be reduced to 25*l.* and a proper representation to the Inland Revenue might get a further reduction.

The Judge: I will adjourn this case to Cootehill for judgment.

Sale of Food and Drugs Acts.

Spirit of Nitre.

At Knaresborough on January 27, Allen Finsley, Birstwith, was fined 2*s.* 6*d.*, and 1*l.* 15*s.* 4*d.* costs, for selling spirit of nitre which was 31.4 per cent. below strength.

Ground Allspice.

At Bournemouth on January 26, George M. Smith, 63 Southwark Street, London, S.E., was ordered to pay 20*s.* 6*d.*, the costs of a prosecution for selling ground allspice, purchased at his shop in Boscombe, which was certified to be adulterated with spent allspice.

A Dispensing Case.

At the Birmingham Police Court on January 29, Boots Cash Chemists, Ltd., were summoned by the Birmingham Health Committee, under Section 7 of the 1875 Act, for selling a compounded drug—viz., potassium bromide and chloroform-water—not composed of ingredients according to the demands of the purchaser. The Stipendiary (Mr. Morton Brown) heard the case. Mr. Prideaux prosecuted, and Mr. C. H. Kirby (London) appeared for the defendants.

Mr. Kirby at the outset admitted a technical breach of the law, but said he would show that Messrs. Boots were not to blame for it.

Mr. Prideaux, in opening, said the offence was one of inaccurate dispensing. At the Harborne shop a prescription was asked for, comprising a mixture of 240 grains of potassium bromide to be dissolved in 8 oz. of chloroform-water. When the medicine was made up it was found to be deficient in the potassium bromide to the extent of 15 per

cent.—viz., 16 grains in 8 oz. of chloroform-water. While this inaccuracy, said Mr. Prideaux, was not so important as it would have been in the case of a more potent drug, it was important in this sense—that in all cases dispensing should be perfectly accurate, because unless doctors were sure patients had what they ordered them, they would be unable to trace the progress of their cases or watch the effect of the doses. Moreover, if one prescription was inaccurately dispensed, there was no reason why a similar mistake should not occur in the case of some more powerful drug.

Inspector Freeman, of the Health Department, gave formal evidence of the purchase. The mixture was submitted to the city analyst, whose certificate was put in, showing the deficiency above mentioned. In cross-examination by Mr. Kirby, witness stated that the bottle contained a little more than 8 oz., and that the total amount of potassium bromide would thus be 232 grains. The dispenser informed him that the prescription was handed to him by the manager, Mr. Carr, just as that gentleman was leaving for lunch, and that it was for that reason that the usual course was not followed of checking each other.

Dr. George F. Buchan, assistant medical officer, also gave evidence, and added that the error might be caused by the dispenser estimating the drug instead of weighing it. Of course, a doctor would be unable to watch the effect of the drug so accurately.

The Stipendiary : It is a cheap drug, so there is no question of it having been done with the object of saving money?

Dr. Buchan : No. It was not done with that object, I am sure. The prosecution, he added, was not taken so much on account of the slight deficiency as on account of the inaccuracy of making up the prescription. Replying to a question as to whether the modern tablespoon was not rather more than ½ oz., witness said it was defined medically as ½ oz.

Mr. Kirby, for the defence, said the directors sent out a list of rules to all their managers, in which emphasis was particularly laid on the fact that each bottle should be carefully tested before being filled, as uniformity in size could not be guaranteed. Messrs. Boots had only given a bigger bottle and more chloroform-water than was asked for.

David Coultard, the dispenser, was called for the defence. He said he had served five years' apprenticeship, and had had twenty-four years' experience of dispensing. He carefully weighed the 240 grains of bromide, but as it was such a simple mixture he did not test the bottle, which he merely filled up.

Mr. Prideaux : It may have been a simple mixture, but you did not know the patient for whom it was intended, and drugs differ as regards their potency according to the patient? Witness : I cannot say.

Mr. Prideaux : I should have thought that was a matter of common knowledge.

The Stipendiary, in fining the defendants 20*s.* and costs, said that if the assistant had carried out the instructions of Messrs. Boots there would have been no prosecution.

County Court Cases.

Boot-socks.

In the City of London Court on February 2, before Mr. Registrar Wild, J. M. Davis & Son, chemists, 89 Bishopsgate Street Without, obtained judgment against Mr. Alfred Witt, bootmaker, 54 Kingswood Road, Fulham, S.W., for 15*s.* 6*d.* for boot-socks supplied on an order obtained at the Shoe and Leather Fair, Agricultural Hall.

Commission-agents' Ways.

In the City of London Court on January 29, before Judge Lumley Smith, K.C., Messrs. Dormer, Dunn & Dale, Ltd., chemists, 6 Billiter Street, E.C., sought to recover the sum of 3*l.* 6*s.* for white fat, or butter-substitute, supplied to the defendant, Mr. Fowler, Bell Street, Henley-on-Thames. Judge Lumley Smith said that the defendant had written to the Court sending samples of the goods supplied. He also said that he ordered 28 lb., and that the plaintiffs had sent him 1 cwt.—Mr. Hexhall (plaintiffs' solicitor) said that the defendant accepted the whole of the goods sent. The man who sent them the order, a commission-agent, said that the defendant ordered 1 cwt. Under the Sale of Goods Act the defendant must take the goods and pay for them unless he gave notice that he would not do so.—Judge Lumley Smith : There is such a lot of this sort of thing going on.—Mr. Hexhall added that the defendant had had two invoices and letters asking for the money. He had never raised his present defence before.—Judge Lumley Smith said that the defendant also said he kept waiting for the traveller to call again.—Mr. Hexhall : He was not a traveller, only a commission-agent. Judge Lumley Smith : These commission-agents will say anything. You are entitled to your judgment.—Judgment was accordingly entered for the plaintiffs, with costs.

Deed of Arrangement.

Armstrong, Benjamin, 10 Church Street, and 6 The Promenade, Great Malvern, Worcester, Chemist and Druggist. Trustee, A. H. Weller, Edith Walk, Malvern. Dated January 21; filed January 28. Liabilities unsecured, 1,931*l.*; estimated net assets, 1,300*l.* The following are among the creditors: Barron, Harveys & Co., 25*l.*; H. Bronnley & Co., 13*l.*; Evans Sons Lescher & Webb, Ltd., 138*l.*; Goldhill & Co., 34*l.*; Ingram & Royle, Ltd., 25*l.*; Parke, Davis & Co., 13*l.*; E. Rimmel, 14*l.*; Sangers, 16*l.*; J. Timpson & Co., Ltd., 14*l.*; W. Toogood, Ltd., 11*l.*; Warrick Bros., 14*l.*; Willows, Francis, Butler & Thompson, Ltd., 10*l.*; Van Oppen, Ross & Co., 20*l.*; Coate & Co., Axminster, 14*l.*; Southall Bros. & Barclay, Ltd., Birmingham, 15*l.*; Blackwell, Hayes & Co., Birmingham, 14*l.*; Wyleys, Ltd., Coventry, 93*l.*; J. Townsend & Sons, Exeter, 12*l.*; Coleman & Co., Norwich, 13*l.*; J. H. Haywood, Nottingham, 18*l.*; York Glass Co., Ltd., York, 11*l.*

Gazette.

Partnerships Dissolved.

Curwen, I. J., and Curwen, J. R., aërated mineral-water manufacturers, Lancaster, under the style of Curwen Bros.

Hocken, W. M., and Milne, A. G., physicians, etc., Birkenhead, under the style of Hocken & Milne.

Milne, N. P., and Davies, D. C., gas and chemical engineers, Manchester, under the style of N. P. Milne & Co.

The Bankruptcy Acts, 1883 and 1890.

Receiving Order.

Cuxson, Albert Edward (formerly carrying on business in co-partnership with Charles William Witt as Witt, Cuxson & Co.), Handsworth, Staffs, late Birmingham, corn, hay, and straw merchant, manufacturer of aseptic hospital-furniture and surgical appliances.

Adjudications.

Bernard, Charles John, Skegness, Lincs, physician and surgeon.

Brown, Haydn, Caterham, Surrey, physician.

Kay, Frank, Middleton, Lancs, bleacher, dyer, printer, and manufacturing chemist.

Liquidations.

Crown Mineral-water Works, Ltd.—Mr. F. E. Chandler, Ludgershall (Wilts), secretary of the company, has been appointed receiver.

London and Hull Soapworks, Ltd.—Liquidator's report at meeting, 18 Eldon Street, London, E.C., March 2, 12 noon.

Oil Products Co., Ltd.—Liquidator's report at meeting, 11 Pancras Lane, London, E.C., March 2, 3 p.m.

Sharpness Chemical Co., Ltd.—Creditors to notify Mr. J. H. Gent, solicitor, Sutton Coldfield, before March 12.

West Birmingham Drug Co., Ltd., formerly trading as "W. H. Thonger." Creditors' claims to be lodged with the Liquidator, 50 Cherry Street, Birmingham, before February 8.

Hypnotism is an inhibition of the amœboid movements of the pseudopathic protoplasmic prolongation of the neurospongium." Think of it!

The Calendar of the Pharmaceutical Society of Great Britain for 1909 has been published by the Society, 17 Bloomsbury Square, London, W.C., at 2*s.* It is on old and familiar lines, but the old Poisons Schedule has disappeared, and the Act of 1908 has taken its place (in one sense). The various "Gazette" notices of additions to the 1868 Schedule are retained, which is wise, for it is not absolutely certain that the terms of Section 1 of the 1908 Act repeal these additions, although that was the intention.

New Companies and Company News.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

Dominion Oil Co., Ltd.—Capital 100*l*. Objects: To acquire any oil-bearing lands in Canada or elsewhere, and to carry on the business of refiners of petroleum and other mineral oils, etc. The first directors are E. R. Baines, J. H. Browton, J. H. Campion, and H. G. Campion (23 Old Broad Street, E.C.).

Jamieson, Ltd.—Registered in Edinburgh. Capital 5,000*l*. Objects: To acquire the business carried on in Glasgow and elsewhere by Jamieson & Co., oil merchants, refiners, and importers, etc. The first directors are R. F. Alexander, J. Alexander, and W. C. Stewart. R.O., 105 Clyde Street, Anderston.

J. L. Bowen & Son, Ltd. (P.C.).—Capital 6,000*l*. Objects: To acquire the business of mineral and aerated-water and non-alcoholic beverage manufacturers carried on by J. L. Bowen and D. O. Bowen as "J. L. Bowen & Son," at Aberdare and Morriston, Glam. The first directors are J. L. Bowen and D. O. Bowen (both permanent).

Carver, Waite & Co., Ltd. (P.C.).—Capital 1,000*l*. Objects: To acquire the business carried on at 60 High Street, Stoke Newington, N.E., as "Carver & Waite," and to carry on the business of chemists, druggists, drysalters, oil and colour men, etc. The first directors are C. T. Waite and E. W. Carver, chemists. R.O., 60 High Street, Stoke Newington, N.

A. Cecil Weller & Co., Ltd. (P.C.).—Capital 5,000*l*. Objects: To carry on the business of soap manufacturers, pharmaceutical chemists and druggists, manufacturers of and dealers in oils, ammonia, and oleaginous and saponaceous substances, etc. The first subscribers (each with one share) are C. E. Hemmings and H. H. Cooper, clerks. R.O., 109 Victoria Street, Westminster, S.W.

County Chemical Co. (Continental), Ltd. (P.C.).—Capital 3,020*l*. Objects: To take over the County Chemical Co., Ltd., of Park Street, Birmingham, and to carry on in any part of Europe (except Great Britain, Holland, Denmark, Sweden, and Norway) the business of chemists, oil boilers and refiners, electroplaters, enamellers, etc. The first directors are J. R. Nisbet, W. Hill, R. Munro, and E. L. Payton. R.O., the "Chemico" Works, Bradford Street, Birmingham.

Argentine Estates of Bovril, Ltd.—Capital 700,000*l*. Objects: To adopt agreements for acquiring estancias, ranches, and farms, and to carry on the business of stock owners and breeders, farmers, stockmen, importers and exporters of meat, live cattle, sheep, pigs, and stock, meat salesmen, preserved-meat manufacturers, manufacturers of extract of meat, dealers in hides, fat, tallow, grease, offal, and other animal products, etc. The first directors (to be not less than three nor more than eight) are Geo. Lawson Johnston (chairman), A. Walker, Lord Hyde, J. Kade, F. M. Cutbush, H. Michelis, Baron Wilhelm von Marbach, and M. A. Pasman. Remuneration, 200*l*. each per annum (Chairman 1,200*l*.).

Celluloid, Ltd.—In the Chancery Division of the High Court on February 3, Mr. Justice Joyce granted the application of the debenture-holders of this company, which carries on business as manufacturers of and dealers in celluloid at Port Talbot, Glamorgan, and appointed a receiver.

G. B. Kent & Sons, Ltd.—The report for the year ended September 30 states that after allowing for bad and doubtful debts, depreciation, etc., there is a balance of profit of 10,223*l*., *plus* the balance brought forward and the transfer-fees. In view of the general depression in trade during the twelve months, it has been a difficult matter to keep the sales nearly up to those of the previous year, and this has only been done by additional expenditure in advertising, etc. The directors are about to open a factory for making painting-brushes in Melbourne, Australia, and Mr. A. Barton Kent (chairman of the company) is at present in Australia on this business. Seeing the large tariff on painting-brushes imported into Australia, the directors have sanguine hopes of increasing the sales there by manufacturing under this protection. The board have paid the usual half-yearly dividend on the preference shares, and after paying the life directors' fees (2,100*l*.) recommend a dividend of 2 per cent. on the ordinary shares (declared at the general meeting held on January 29), absorbing 5,852*l*., and leaving to be carried forward 314*l*. The directors remind the shareholders that the success of the undertaking largely depends upon customers who, relying upon high-class and durable goods, support the company, and they suggest that shareholders, who doubtless have many opportunities, should, in their own interest and that of the company, use their influence, not only in maintaining existing business, but in helping to increase it.

Kirks Drug-stores, Ltd., 63 Heaton Road, Newcastle-on-Tyne.—At a meeting of creditors of this company (in voluntary liquidation) held on January 26, it was resolved that the creditors should apply to the Court for the appointment of a liquidator. The following is a statement of the liabilities: Andrew Usher & Co., Edinburgh (17*l*.); Armitage & Speight, Leeds (10*l*.); Glendenning & Sons, Ltd., Newcastle (100*l*.); John Ismay & Sons, Newcastle (155*l*.); Wilkinson & Simpson, Ltd., Newcastle (18*l*.); George Wake (Exors. of) (239*l*.); debentures (250*l*.); trade creditors (450*l*. 16*s*. 10*d*.); assets (estimated) (594*l*. 4*s*. 8*d*.).

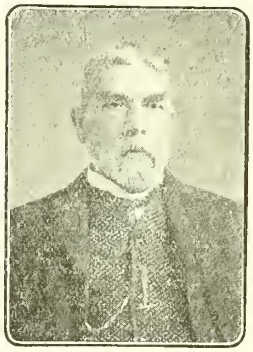
Mortgages and Charges.—The following have been filed at Somerset House: *Sunrise Proprietary Co., Ltd.*, chemists, London. Debenture, dated January 15, 1909, to secure 100*l*., and another, dated January 21, to secure 150*l*. Holder: Mr. O. E. Warburg, 28-9 St. Swithin's Lane, E.C.

Birth.

Ferber.—At 13 Kingsthorpe Road, Sydenham, on January 31, the wife of Robert Ferber, of a daughter.

Deaths.

Bell.—At Hull, on February 2, after a short illness, Mr. Charles Bains Bell, chemist and druggist, President of the Hull Chemists' Association, aged seventy-two. Mr. Bell, who served his apprenticeship partly in York and partly in Hull, commenced business in 1861 at 6 Spring Bank, Hull, where he continued until his death. Mr. Bell was the last of the four founders of the Hull Chemists' Association, which he and Messrs. J. Burn, A. Stirling, and W. Staning formed when the branch of the United Society of Chemists and Druggists at Hull ceased to exist. He was Assistant Secretary of the Branch when it was formed in 1863, becoming afterwards Secretary and then President. He occupied the Presidential chair of the newer Association for three years until 1871, when he was presented with a silver cup and salver as a token of the Association's esteem. He was re-elected to the same office in January 1908. Mr. Bell was also connected with the Chemists' Trade Association as a Councillor. Since 1872 he had acted as Local or Divisional Secretary to the Pharmaceutical Society, and he served for twenty years as a Guardian of the Hull Incorporation of the Poor, filling in 1894 the Governor's chair. He was also a prominent Churchman and Freemason.



Bentley.—At Collingham, near Leeds, on January 30, Mr. Lumley Scurr Bentley, chemist and druggist, manager at 81 Sweet Street, Holbeck, for Messrs. Horsfield & Sons, Ltd., aged thirty-four.

Bryant.—On January 22, at 7 Palliser Court, West Kensington, London, W., Mr. Thomas Bryant, aged fifty-seven. Mr. Bryant, who died from pneumonia, was for many years a familiar figure in the spice and drug trades, being proprietor of the firm of Messrs. Thomas Bryant & Co. (formerly Bryant & Aitkens), 30 Mincing Lane, E.C. It has been decided to carry on the business under the management of Mr. G. T. Iggledon, who has been associated with the firm for some years.

Chatburn.—At 143 Legrams Lane, Bradford, on February 2, Mr. Percy Chatburn, chemist and druggist, aged thirty-two.

Davis.—On January 15, Mr. John Charles Davis, president of the Davis-Bridaham Drug Co. and J. W. Hagus Co., Denver, Colorado, U.S.A.

Devitt.—In India, on January 27, suddenly of blackwater fever, Cuthbert Leslie, second son of Mr. Andrew

Devitt, of Messrs. Lewis & Peat, 6 Mincing Lane, London, E.C., aged thirty.

Durant.—The death took place on February 3 of Mr. Augustus Durant, a director of Messrs. Durant, Bradford & Co., Ltd., export merchants, 5 and 6 Billiter Avenue, E.C. Mr. Durant had been in failing health for some time previously, but the end came somewhat suddenly. The company with which Mr. Durant was connected are the London agents for Mr. J. Bliss, of Karachi; Messrs. Graham & Co., Ltd., of Penang; Mr. G. A. Watkins, of Hong Kong; and others.

Hibbert.—At 28 Sycamore Street, Cheetham, on January 26, Mr. Wm. Hibbert, aged seventy-three. Mr. Hibbert was employed by Messrs. J. Woolley, Sons & Co., Ltd., Manchester, for thirty-five years.

Hirst.—At 22 Northbrook Street, Chapel Allerton, Leeds, on January 31, Mr. David Hirst, chemist and druggist, formerly of Holbeck Bridge.

Horrell.—At York Lodge, Broadstairs, on February 2, Mr. Alfred Edwin Horrell, chemist and druggist, of Messrs. Horrell & Goff, chemists, 34-36 High Street, Dartford, aged seventy-four. Mr. Horrell has served on the old Local Board at Dartford. His eldest son is Mr. A. C. Julian Horrell, Ph.C., Broadstairs.

Ing.—On January 31, Mr. Edwin Robert Ing, chemist and druggist, Swindon, aged seventy-eight. Mr. Ing left Aylesbury for Swindon fifty-six years ago, and at the latter town he carried on business in Wood Street for many years. He was also head of the firm of E. R. Ing & Co., mineral-water manufacturers, Lansdown Road. In public affairs his interest centred in the old Local Board, of which he was a member, and in the Volunteer movement. He was also a prominent local Freemason.

Jack.—At Argyll Street, Lochgilphead, on January 25, Margaret, widow of Mr. William Jack, chemist and druggist, aged fifty-eight.

Knight.—At 31 Holland Park, W., on January 31, as the result of injuries sustained by falling downstairs, Mr. John Burgess Knight, formerly principal of Messrs. John Knight & Sons, Ltd., soapmakers, aged eighty-eight.

Sapp.—At 5 Clarence Parade, Southsea, on February 2, suddenly, Mrs. J. J. Sapp, the wife of Mr. John James Sapp, J.P., chemist and druggist. Mrs. Sapp was an active Congregational Church worker.

Watts.—At her residence, Cromford, Rowsley Avenue, Hendon, on January 28, Dorothea, widow of William Manning Watts, of 35 Belsize Park, Hampstead.

Wyatt.—At Cannington, Ontario, Canada, on December 15, 1908, Mr. Alfred Wyatt, chemist and druggist, aged eighty-five. Mr. Wyatt was born at Salisbury, England, in 1823, and in 1838 was apprenticed to Mr. Thomas Basting, Weymouth. He passed the examination of the Pharmaceutical Society in 1845, and two years afterwards went to Canada. He was in business at Cannington up to 1901, when he retired.

Trade Notes.

"Velvey" Bath-sponges.—Messrs. Barclay & Sons, Ltd., inform us that since "Our Town Traveller" visited them they are no longer selling "Velvey" bath-sponges by weight, as stated in our Winter Issue last week, but the prices for the four sizes are respectively 3*s*., 4*s*., 5*s*., and 7*s*. each.

Ampoules.—Messrs. F. H. Taylor & Sons, New Wharf Road, King's Cross, London, N., inform us that they supply ampoules blown from Jena white and amber glass, and stock five shapes of them. These they supply in boxes of 500 at from 4*s*. 6*d*. to 6*s*. 3*d*. per box, according to the shape and colour of the glass. Each ampoule is of 1 c.c. capacity.

Lithium Salts.—With reference to certain reports which have been current in regard to the production and prices of lithium salts, we wish to make it clear that Messrs. May & Baker, Ltd., Battersea, S.W., as manufacturers of lithium carbonate and other salts of this base, continue their production, and are prepared to quote for salts of B.P. purity in any wholesale quantity.

That Piece of Shop-fitting which will make the pharmacy complete is offered this week by Messrs. Philip Josephs & Sons, 93 Old Street, Goswell Road, London, E.C. They begin a stock-taking sale on February 8, and they give in their advertisement this week some examples of the articles offered and the reductions made. A complete list can be got from the firm on application.

Messrs. Thos. & Wm. Henry, 11 Earl Street, Manchester, are issuing to their customers a circular regarding a judgment which they obtained some months ago against a Buenos Ayres trader for imitating the get-up of their well-known magnesia. The trader actually registered as his trade-mark an imitation English Inland Revenue stamp and Messrs. Henry's "caution label." The whole make-up of his goods was a copy of theirs, and he even had several lots of the genuine Henry's Calcined Magnesia confiscated, declaring they were a fraudulent imitation of his!

Macdougall's Vapaform Lamp is a complete apparatus containing everything essential to disinfect thoroughly, by means of formaldehyde gas, from 1,000 to 1,200 cubic feet of space. The upper part of the disinfector, which is figured in our advertisement-columns, is a tin containing solid paraformaldehyde, and the moisture so essential for disinfection with formaldehyde gas. The lower portion acts as a support for this, and also as holder of a small oil-lamp, which, when lit, supplies the requisite heat for vaporisation of the disinfectant. The apparatus is well got up, and looks good value for its retail price, 1*s*. Messrs. McDougall Bros., manufacturing chemists, Manchester, will supply information concerning this and their other specialities.

Kalzen Disinfectant-fluid is one of the modern types of highly concentrated and efficient germicides. Tested by the Rideal-Walker method against carbolic acid, the analysts' reports show that against *B. pestis* and *B. choleræ* it possesses a coefficient of 35 and 32 respectively, while the value is 17.0 with *B. tuberculosis* and *B. typhosus*. In addition to the brown liquid form miscible with water, "Kalzen" is prepared in two powder forms, one completely soluble in cold water and the other insoluble even in mineral acids. The powders possess a germicidal value equivalent to powders containing between 10 and 60 per cent. of carbolic acid. Bacteriological workers are invited to verify these figures, while Messrs. A. Rowan and Brother, 121 Harrow Street, Limehouse, London, E., will be pleased to answer inquiries from chemists and druggists, and to furnish copies of analysts' reports.

"Evans's Analytical Notes."—The third issue (1908) of "Analytical Notes," by Messrs. Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, and 60 Bartholomew Close, London, E.C., is good testimony to the degree of purity attained in modern drugs. However, the notes also demonstrate that care must still be taken to ensure the absence of fraudulent or accidental adulteration. For instance, one sample of araroba yielded only 4.5 per cent. of matter soluble in chloroform; some cinnamon-oil was too cheap, and, although up to the Pharmacopœial requirements, contained added aldehyde and possibly cinnamon-leaf oil; foreign ground gentian was found to be again heavily adulterated, powdered wood fibre replacing the customary "fruit-stone" powder in some samples. Other valuable information is the percentage of active constituents in various drugs and alkaloids, while the numerous results given of determinations of arsenic and lead in many pharmaceutical chemicals will aid in obtaining practical commercial limits for these contaminations. An index to this and the two former issues enables ready reference when information is required on any particular drug. Any of our readers can obtain a copy on application to Messrs. Evans.

London Chamber of Commerce.—At a meeting of the Owners of Proprietary Articles Subsection, held on February 2, Mr. H. T. Bollmann Condy (Condy & Mitchell, Ltd.) was elected Chairman in place of Mr. John C. Umney, who has held that position since the initiation of the Subsection in April 1906, but who now finds himself compelled to retire owing to the increasing number of his engagements. A hearty vote of thanks was accorded to Mr. Umney for his valuable services.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, FEBRUARY 6, 1909.

PUBLISHER'S NOTICE TO ADVERTISERS.

Advertisers are desired to take note that the advertisements of Businesses for Disposal and Wanted, Situations Open and Required, Exchange Column, &c., belong to the **PREPAID CLASS, and to ensure the due insertion of the announcements the remittances must accompany the instructions.** A great amount of unnecessary correspondence is occasioned by the non-observance of this regulation, and the Publisher hopes that the advertisers will assist in the quick preparation and despatch of the Supplement by strictly observing this rule. Advertisements for the current issue cannot be received after 4 p.m. on Thursday [illegible] week.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

Genuine Publicity always pays. That is why it pays to use this Supplement.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, E.C.—Situate in close proximity to busy railway station; old-established Business; returns between £2,500 and £3,000 per annum; *net profit* £800; further details on application; references will facilitate business.

2.—LONDON, S.W.—Main thoroughfare; General Retail, Photographic, and Optical; all good middle-class trading; returns £1,050; scope for extended trade; *net profit* 25 per cent.; attractive shop; roomy house; rent £60; long lease; price £650.

3.—CHARING CROSS (near).—Good-class Business; Retail, Dispensing, and Photographic; returns about £1,700; handsomely-fitted shop, fully stocked; to an immediate purchaser less than the value of stock and fixtures will be accepted.

4.—LONDON, S.E.—Residential locality; established Business; Retail and Dispensing; returns £1,100 (about); profits above the average; well-fitted shop, fully stocked; comfortable residence; held on lease; price £875.

5.—LONDON (West End).—Dispensing and Retail Business; very old established; returns £1,200 per annum; *net profit* 25 per cent. (proof given); well-appointed shop; corner position; large house; price £900 or valuation terms entertained.

6.—SUSSEX (Health Resort).—Neglected Business; Retail and Dispensing; returns between £600 and £700 yearly; attractive shop, and well-assorted stock; immediate sale desired; no reasonable offer refused.

7.—LONDON.—Situate in close proximity to the Docks; ready-money Business; main thoroughfare; returns under management £13 weekly; formerly about £1,100 yearly; scope for large development; to a prompt purchaser easy terms can be arranged; worth attention.

8.—YORKS (Health Resort).—Dispensing and Retail Business; established many years; returns, including small branch, about £900 yearly; profits above the average; good reasons for disposal; about the value of stock and fixtures will be accepted.

9.—LINCS.—Market town; Ready-money Business; Retail, Prescribing, and Photographic; returns about £1,400 yearly; *gross profit* £470; attractive, well-fitted shop; situate in busy main thoroughfare; rent £48; valuation of stock and fixtures only required.

10.—LIVERPOOL (near).—Old-established Business; Retail, Dispensing, and Prescribing; returns average £800 per annum; *net profit* 25 per cent.; well-fitted shop; corner position; main thoroughfare; modern house; rent £65; price £400; ill-health cause of sale.

11.—DORSET COAST.—Retail, Dispensing, Prescribing, and Photographic trade; returns about £620; *profit (net)* £200; modern-fitted shop; good residence; price £320 or valuation of stock and fixtures.

12.—Midlands (Inland Health Resort).—High-class Retail, Dispensing, Optical, and Photographic Business; returns about £600; *net profit* £150; modern-fitted shop; main thoroughfare; capital residence; price £350.

13.—SOUTH COAST.—High-class Business; Retail and Dispensing; returns average £1,200 yearly; present rate less; profits above the average; illness cause of sale; reasonable offer entertained.

14.—WILTS.—Established Business; Light Country Retail, with good Family connection; returns £500; *net profit* £190 (about); roomy house; large garden; long lease; no opposition; price £350.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co., desire to emphasise the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO, 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

CHEMISTS' VALUERS AND TRANSFER AGENTS,

Telegrams: "Brett Leicester."] **8 WEST STREET, LEICESTER.** Telephone: 160 Y.

VALUATIONS have always had our special and personal attention, and an experience of thirty years is at your disposal.
AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a Purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS TO THE ENTIRE DRUG TRADE.

YORKS.—Splendid high-class Dispensing Business, with nice Photo and Optical connection; one of the best businesses in the district; old-fashioned, fine premises, which can be had on lease at moderate rent; returns over £2,000; price, valuation only, £800 to £1,000; grand opportunity.

MIDLANDS.—Good-class Light Retail, with Photo trade and nice Optical connection; splendid position in main street of busy town; returns £1,400; valuation of stock and fixtures.

GLOUCESTERSHIRE.—Unopposed Light Retail, Photographic, and Dispensing; good shop and house; large garden; very old established; returns £530; net profit £200; price £425.

KENT.—Good-class Retail, Dispensing, and Photographic, in centre of main business street; large, lofty, and beautifully fitted shop, in latest style; returns £800, and increasing; price £750, or offer.

YORKS.—High-class cash trade; Photographic and Wines, with excellent Specialities; tram terminus; best street in town; very old established; returns £1,230; net profit £350; price, goodwill £150 and valuation, about £850; splendid concern.

BERKSHIRE.—Good-class Dispensing and Light Retail; very good Photographic connection; good house and shop; old established; returns £900; price £650; great scope for increase; references required.

WARWICKSHIRE.—Very nice Dispensing and Light Retail Business, with Photographic; good shop; in nice position of inland health resort; convenient house; returns £600; owing to sudden illness of vendor, will accept £450, or near offer; splendid opportunity.

YORKS.—Nice Light General Retail, Prescribing, and Agricultural Business; very nice country district; unopposed; returns £400; price £160; rent £20.

YORKS.—Mixed General Retail, in pretty country district; nice corner shop, and very old established; good house; returns nearly £400; price £400.

HERTS.—Middle-class Retail with Mineral-water plant; very old-established; returns £10 per week, and can be greatly increased; price £525; good premises; moderate rent.

YORKS.—Middle-class Retail and Dispensing and good Proprietaries; small Wholesale; large yard and garden, and excellent premises; very old-established; returns £800 (or thereabouts); price £350, or offer; this is a bargain.

LEICESTER.—Good Light Retail, Dispensing, and Prescribing; splendid position and nicely fitted; returns £16 weekly; low rent; price £450; can be greatly increased.

LIVERPOOL.—Good middle-class Retail, in best position, returning under unqualified manager over £600; net profit £200; price £425; rent £40; great scope for increase.

Having been successful in disposing of several businesses lately, we are in want of two or three good-class concerns, returning between £800 and £3,000. We have Clients waiting with money ready to invest. Write us at once.

MESSRS. BERDOE & FISH,

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL

Have the following Businesses for Disposal. (No charge to Purchasers.)

1.—HOME COUNTY (Important Market and Residential Town).—Good-class Retail, Dispensing, and Prescribing; returning £30 weekly, has done £50; large Pharmacy; excellent position; handsomely fitted and well stocked; price £1,050.

2.—KENT (Market Town).—Good-class Light Country Retail Business; easily worked; returns £800; net profit £300; best position; no opposition; large house and garden; price £650 or offer.

3.—WEST OF ENGLAND.—Good-class Family and Country Retail; in market town; unopposed; returns over £600; net profit £200; large house and garden; price £450; strongly recommended.

4.—BERKSHIRE.—Good-class Retail, Dispensing, and Photographic Business; returns £830; net profit £225; good position; large house and garden; price £575, simply valuation.

5.—NORFOLK (Coast).—Light Retail, Prescribing, and Photographic Business, increasing; returns £760; net profit £200; low rent; good position; illness sole reason for selling; price about £350.

6.—BRIGHTON.—Good-class Retail and Dispensing; entirely under management and neglected; nearly 600 new Prescriptions yearly; large, well-fitted shop; good position; price £150 for quick sale.

7.—MIDDLESEX (15 miles out).—Light Retail, Dispensing, and Prescribing Business; returns over £650; net profit £213; modern-fitted shop and good stock; price £300, or valuation.

8.—LONDON (Northern Suburb).—Light Cash Retail and Prescribing, with own Proprietaries; returns nearly £1,700; very profitable; fine modern Pharmacy, fully stocked; excellent position; price £1,050, or valuation terms arranged.

9.—LONDON, S.W. (close to busy Station).—Good-class Retail and Dispensing Business; returns £800; good profits; well-fitted shop and good stock; stands to do £1,200; valuation only required.

10.—MANCHESTER.—For immediate Disposal, under exceptional circumstances, very profitable City Business; easily worked; returns last year £2,500; scarcely any patents; unique position; handsome shop, well stocked; price £850 or valuation; only wants seeing.

11.—SOUTH COAST.—Light Retail, Prescribing, and Dispensing Business; returns £950; net profit over £250; double-fronted shop, well fitted and stocked; price £630; part can remain.

12.—INLAND HEALTH RESORT (South).—Light Cash Retail, Prescribing, and Dispensing Business; returns £750; net profit over £200; scope for increase; well-fitted shop; good position; fully stocked; price £550.

13.—DERBYSHIRE.—Mixed Country Retail Business, in best position of small town; returns £950; net profit £260; corner shop, well fitted and stocked; price £500.

14.—LANCS.—Unopposed Light Retail and Prescribing with own Specialities; returns £750; net profit £220 clear; low rent; good position in small town; price £450.

15.—LEEDS.—Light Retail and Dispensing Business, in good position; returns over £500, steadily increasing; net profit £170; attractive shop, fully stocked; price £250 or valuation.

16.—MIDLANDS.—Profitable Light Retail and Prescribing Business; returns £11 weekly, increasing; corner shop; no near opposition; densely-populated district; rent only £20; price £225 or valuation.

17.—LONDON, S.E. (splendid Main Road position).—Light Family Retail and Dispensing; returns £700; gross profits 45 per cent.; plenty of scope in younger hands; owner retiring; valuation of stock and fixtures only required.

18.—LONDON SUBURB.—Light Family Retail and Prescribing; very few patents; returns over £600; net profit £240 clear; no near opposition; good house, etc.; price £325; books properly kept.

STOCKTAKING.

Every modern Chemist knows that Stocktaking is a necessity, but is he aware of its immense value and importance in connection with FIRE INSURANCE and preparing a BALANCE-SHEET? If not, he should at once turn up page 115 in the "C. & D. Diary, 1909," and carefully read our advertisement on this subject, and then write for our special terms for doing this work.

J. G. BERDOE established the firm in 1870, and W. S. FISH was apprenticed to him in 1877.

PARSON C. BAKER

174, VICTORIA ST., LONDON, S.W.

Recommended by—MESSRS. BARRON, HARVEYS & CO.
MESSRS. MEGGESON & CO.
MESSRS. BARCLAY & SON, LTD.

Telephone: No. 27 Victoria.

ESTABLISHED 3 years; returning £700; no near opposition; estate now very rapidly filling up; extreme suburb of London, joining beautiful district; rent £50; price £300, which is estimated value of shop and fixtures; absolute net profit £280.

FIRST-CLASS Store in best neighbourhood West London, with Dispensing; 3,000 new prescriptions per annum; returns over £1,600; large handsome shop and good house; rent £100 (let off £50); net profit over £400 per annum; full investigation allowed; price £850.

LONDON, N.—Good-class General Retail; good prices; average returns £650, has done £18 weekly; proprietor retiring; good house and shop; genuine bargain; lease granted; price £400.

LONDON, N.E.—Genuine bargain.—Fine attractive Shop; returns last 4 years over £800; 12 years' lease unexpired; no reasonable offer refused; owner going into the Wholesale.

BRIGHTON.—Old-established; returns under manager £550; Light Retail and Dispensing; well stocked and fitted; house, 5 rooms and usual offices; no reasonable offer refused.

TOMTOM

Telegraphic Address.

THOS. TOMLINSON & SON.

Chemists' Valuers and Expert Stocktakers,
Businesses transferred privately.
29 NEW CANNON STREET, MANCHESTER.

JACKSON & COMPANY,

Auctioneers specially for Chemists, Valuers and Expert Stocktakers.

The Cheapest and yet the most Reliable Firm in the Entire Trade.

16 STRATFORD AVENUE, ROCHDALE.

TELEPHONE NO. 645.

FREDK. WM. SMITH,

LICENSED CHEMISTS' VALUER.

Valuations for transfer of business, Probate, &c. Businesses for disposal. Stocks and Fixtures purchased to any amount for cash. Stocktakings undertaken. A Register kept of Assistants and Chemists requiring Assistants; no charge made.

3 Belgrave Terrace, LEEDS.

TELEPHONE 02949.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

BRISTOL CITY.—Bargain for immediate Disposal; old-established Light Retail, Prescribing trade; same hands 15 years; large shop and house; rent low; no opposition; taking £10 a week; price for quick sale, £300 (three hundred pounds). Address, 1428, Daily Press Offices, Bristol.

CAMBS.—Sound old-established Country Business; Prescribing and Agricultural; shop nicely fitted, well stocked; increasing returns, £9 to £10 weekly; good profits; convenient house; large garden, stabling; rent £30; price £400; satisfactory reasons for disposal. 164/4, Office of this Paper.

CHANNEL ISLANDS.—Two Chemist's Businesses for immediate Disposal; shops well fitted and stocked, and excellently situated; prices £160 and £420, and rents low; splendid opportunity for young chemist. Apply for particulars to "Chemist," 35 Grove Road, Brixton Road, S.W.

CHESTER.—Old-established, well-fitted Shop; quite near to busiest part of Foregate Street; fixtures cost £200; offered at £150; stock will be reduced to suit purchaser and then valued; absolutely no unsaleable goods. John Milling, Chemist, Chester.

COUNTRY (Near Chesterfield).—Light Country Business; Prescribing, Dentistry, and Sight-testing; returns 1908, £940; Dentistry and Optics £180; corner shop; best position in town; room fitted for Sight-testing and Dentistry; population 8,000; immediate purchasers. Apply, "Radix," c/o Evans Sons & Co., Ltd., Hanover Street, Liverpool.

DURHAM COUNTY.—Country Business; old-established; population 3,000; returns £12 per week under manager; price £350. Apply, Hirst, Brooke & Hirst, Ltd., Leeds.

EAST COAST.—Old-established Family Retail and Prescribing Business; returns about £650; good house and premises; no agents; references required. "Pharmacist," c/o Hearon, Squire & Francis, 38 Southwark Street, London.

EAST KENT.—Genuine ready-money Light Retail and Prescribing Business; good thoroughfare; scope for increase; no side-lines; expenses small; rent £25; price £200. Apply, "H. S. F. B.," 69 Bryant Road, Strood, Kent.

FLINT (North Wales).—Owing to the death of the proprietor, exceptional opportunity of securing an old-established Mixed Retail, Photographic, and Dispensing Business; returns nearly £800; may be considerably increased, as large new works are about to be erected in the district; rent £26; other expenses very moderate; offers wanted for goodwill, fixtures, etc.; stock at valuation. Apply, J. Williams, Accountant, Flint.

FOLKESTONE.—Genuine Business; Photography, Prescribing, Dispensing, Light Retail; nice house and shop; lease; a good opportunity for young man. Full particulars of Barton, 57 Sandgate Road, Folkestone.

HAMPSTEAD, N.W.—Old-established Dispensing; well fitted, electric light, telephone; lease; moderate rent (half could be sublet); returns £8 per week under management; has done double, and could be greatly increased by principal living on premises; £350 required; no agents. Letters to "Chemist," 34 Nelson Road, Crouch End, N.

LINCOLNSHIRE.—Small Branch, Retail, Prescribing, and Agricultural; nearest opposition 6 miles; increasing population; unopposed; suit either qualified or unqualified beginner; great scope for increase under personal supervision. "Statim" (165/34), Office of this Paper.

LIVERPOOL Suburb.—Profitable Dispensing and Family Business; doing £600 (£200 in top-price Dispensing), and increasing; books properly kept, and a thoroughly sound business. Apply, 155/1, Office of this Paper.

LONDON, N.—£375.—Thorough genuine going Business, returning between £700 and £800 year; nice house; first-class district; capable of good increase; long lease; satisfactory reasons for disposal. Apply, "H. H. J.," 2 Elsinore Road, Forest Hill, S.E.

LONDON, N.W.—Exceptional offer.—Unopposed, old-established Business, including several own Proprietaries; £50; suit unqualified. Address, "Owner," 19B North Street, Romford, Essex.

LONDON, S.W.—Main Shop and Branch to be Sold together or singly; excellent positions, in main road suburb; modern house and shop, with up-to-date fittings; rapidly growing neighbourhood; really genuine reasons for disposal; returns £1,050 and £450 respectively, and can be much increased; good profits; long lease at low rental; price £1,050 for the two, or reasonable offer entertained. Apply, "H. P. A.," 351 Brockley Road, Crofton Park, London, S.E.

LONDON (Busy Main Shopping Centre).—Genuine Cash Retail Business, showing a steady increase each year; returns last year over £1,500; net profit nearly £400; very attractive Pharmacy, handsomely fitted; good stock; excellent position; valuable lease; price about £900; cash buyer only entertained. Address, "Progress" (166/2), Office of this Paper.

BUSINESSES FOR DISPOSAL

(continued.)

LONDON, N.—£350 or close offer; old-established, profitable Counter Prescribing Business, with some Photographic; well stocked; good opening for Dentistry; lease; moderate rent; good house; side entrance; returns £700, with net profit £260; illness cause of intended sale. "Traveller," 111 Purves Road, Kensal Rise, N.W.

LONDON, S.W.—For immediate Disposal, at valuation stock and fixtures only, Branch Shop situated in midst of thickly populated and ever-growing district, returning under indifferent management over £400; would double returns under smart man; about £150 required. "H. H. J.," 2 Elsinore Road, Forest Hill, S.E.

LONDON.—Small Drug-store for Sale; nicely fitted and stocked; takings £8 to £10 per week; mostly penny trade, and very profitable; a good Prescriber would do well; house, with side door and small garden; price £180, or mutual valuation. Apply, "Cardamom" (163/19), Office of this Paper.

LONDON.—Two Businesses; one N., in pleasant locality; neatly fitted mahogany; rent, £35 and rates; price £150 (much below valuation), or nearest offer; other in a market street, S.E.; rent, including rates, 14s. weekly; price £35; profitable trade; owner retiring. "Chemist," 3 Monte Cristo Parade, Newington Green, N.

LONDON.—Acting on strict doctor's orders, Chemist finds himself compelled to give up business; fine shop, well stocked; thriving district; capable of good increase; to effect speedy sale only £500 asked; net profits about £230. Full particulars of "H. H. J.," 2 Elsinore Road, Forest Hill, S.E.

MIDLANDS.—First-class Light Retail and Dispensing Business; absolutely unopposed, and making a net income of close upon £300 yearly; very handsome shop, beautifully fitted and well stocked; situated amid lovely surroundings; price £900, which is about the value of stock and fixtures; scope for increase, and offers most exceptional opportunity. Apply, "Prescription" (168/120), Office of this Paper.

NORTH LONDON.—A Rare Bargain.—Family, Dispensing, and General Retail; average returns for past 6 years nearly £1,100; profits about one-third; selling through health trouble, owner being desirous of leaving London; price, simply fair value of stock and fixtures; would value down to £350. Apply to E. Withers & Sons, Estate Agents, 167 Stoke Newington Road, N.

NORTH-EAST YORKSHIRE.—Mixed Business; entirely cash; established 1881; central position of growing industrial town; no opposition in same street; takings about £450; gross profits £150; rent £50 and rates; price, value of stock and fixtures, or of fixtures and such stock as purchaser may select. Apply, "Rex," c/o Bleasdale's, York.

OLDHAM.—Neglected Business, in centre of town; cheap to quick purchaser; low rent; returns £500; small house; splendid opening for Dentistry and good Prescriber; price, valuation of stock and fixtures, about £200. 165/7, Office of this Paper.

SOUTH COAST (Fashionable Health Resort).—High-class Dispensing and Retail Business, with excellent sale of own Proprietaries; about 4,000 new Prescriptions yearly; handsome Pharmacy, splendid position and well stocked; valuable long lease; applicants with £1,800 cash will find this a most desirable investment. Address, with references, to "H. C. W." (168/12), Office of this Paper.

WEST-END.—Old-established Light Retail and Dispensing Business, with own Proprietaries; returns £1,569; showing clear net profit of £400; very handsome pharmacy; fully stocked; large house; held on long lease at very low rental; price £800. Apply, "Major" (168/012), Office of this Paper.

WORKSOP (The Dukeries).—Compact Business for Disposal; carried on as branch; returns average £8 to £9; could easily be doubled; well-fitted shop; nice house; rent £40; price £250, or valuation. Apply, Hirst, Brooke & Hirst, Ltd., Leeds.

YORKSHIRE.—Thorough genuine Business for Sale, doing over £1,000; price £450. Apply, Collins, Marlborough Villas, York.

AN old-established Retail, Dispensing, and Prescribing Business in main road of very busy suburb within 4 miles of London Bridge; must be sold immediately through ill-health; returns £10 per week; open to great improvement; will accept £275, or near offer. "P. W." (164/10), Office of this Paper.

CASH Retail, Mixed Country Business (opened a few months only), and doing £8 weekly under Junior; could be considerably increased by smart man; double-fronted shop, splendidly fitted; good house attached; price £250, or valuation. Full particulars from Sturdy, Chemist, Worksop.

CHEMIST and Druggist.—Old-established Business. Apply, by letter, W. Powell, 89 Fountain Street, Manchester.

CHEMIST'S Business, established 30 years, situated in a rapidly increasing neighbourhood; in main road, South-Western district, near tramway terminus; good corner shop and convenient dwelling-house; lease 9 years, at a rental of £40, of which £20 let off for side wall, etc.; price, for stock, fixtures, fittings, and lease, only £300; an excellent opportunity for a beginner, or branch establishment; owner retiring. Apply personally to James Lewis & Co., 6 Southampton Buildings, Chancery Lane, W.C.

FIRST-CLASS opening for small Chemist and Druggist's Business at 60 Norwich Road, Ipswich; new double-fronted shop with dwelling-house; excellent business position in main thoroughfare of town, adjoining good residential neighbourhood; rent £26 per annum. Apply, Garrod, Turner & Son, Old Butter Market, Ipswich.

FOR immediate Disposal, neglected Business in pleasant country town 40 miles from London; rapidly increasing population, with surrounding villages about 8,000; low terms to prompt purchaser. 166/13, Office of this Paper.

FULL Books Kept.—Are you looking for a good-class Dispensing, Retail, and Photographic Business, with few patents, and returning an average of upwards of £850? If you have £575 or more and require such a Business in a pleasant, up-to-date town in the Thames Valley, write to "A1." (158/18), Office of this Paper. Bona fide purchasers only. Offered below value for early sale.

OLD-ESTABLISHED Business, in busy neighbourhood, main road, for Disposal; no reasonable offer refused; doing £300; the same may be had upon easiest of terms. Apply, 167/32, Office of this Paper.

TO Chemist-Opticians.—£80 down and balance by instalments purchases splendidly fitted Sight-testing Business and well-stocked shop near London (35 miles); expenses very small; main thoroughfare, good town (85,000 inhabitants); not much opposition; 20-ft. test-room; electricity throughout; with a little capital and personal supervision a splendid business would be made. Address, 165/27, Office of this Paper.

WHOLESALE Druggist and Chemist's on Sale; prove large turnover and profits; good warehouse; price reasonable, or would entertain Partner; exceptional opportunity. Apply, J. Glass, Auctioneer, 49 Deansgate, Manchester.

WILL exchange for Business in London.—South Coast (in centre of thickly populated district); £1,000 returns; £300 net; Prescribing and Light Retail; corner premises; splendidly fitted and stocked; price £775, or £100 and valuation of stock and fittings; proprietor would remove part of stock if wished. 160/22, Office of this Paper.

£49.—Shopping Centre, main road London Suburb, surrounded by dense population, including considerable number first-class families.—Shop and Parlour only; opportunity for business-builder, by moderate outlay, converting this bargain into handsome Pharmacy, which the unique position, equal to the best anywhere, calls for; practically unopposed. 165/23, Office of this Paper.

£250; good Business in Manchester district; Light Retail, Prescribing, and Photographic; excellent corner premises; no opposition; ample scope for increase; returns over £375 at good prices; few patents; this is a splendid chance for a smart man; good opening for Side-lines. Apply, "X. Y. Z." (166/22), Office of this Paper.

£425.—Manchester District.—Old-established corner Shop, handsomely fitted, electric light, situated in main thoroughfare; good cash trade, with fine opening for Dentistry and Optics; satisfactory reasons for disposal; returns £650 under manager. Apply, 154/39, Office of this Paper.

£1,000 buys Freehold double-fronted Shop, 5-room house, with adjoining 5-room house let for £15 12s.; old-established Business; returns nearly £500; easily increased by resident proprietor; shop well fitted; country; 5 miles from rail; good profits; few patents. Cordon, Chemist, Pulborough.

BUSINESSES WANTED.

ADVERTISER (26) wants sound Business, town or country (Midlands preferred), worth £250 to £400, or responsible position with view to purchase, or would entertain progressive Partnership. Please state net profit, turnover, and full details of working expenses, in confidence, to J. H. Cooper, Chemist, Fairholme, Marsh, Huddersfield.

WANTED, at once, small Cash Drug Business; genuine; village or town; healthy locality. Apply, "Drugs," Beresford Villa, Ashcombe Gardens, Weston-super-Mare.

WANTED, a good-class Business; London or South Coast; open to invest up to £1,500. Full particulars to "S. B." (161/29), Office of this Paper.

EXPERIENCED Doctor wishes to rent Rooms over City Chemist's for attendance three times weekly; mutual terms. Apply, 198/14, Office of this Paper.

PARTNERSHIPS.

PARTNERSHIP.—A prosperous firm of Wholesale Druggists in Australia are open to take an Active Partner with £3,000; business open to closest investigation; excellent return offered. Particulars from Arnold & Co., 60 Queen Victoria Street, London, E.C.

SALES BY AUCTION.

RETIRING FROM BUSINESS.

Re MR. THOMAS JOHNSON, CHEMIST, 8 MARKET PLACE, WIGAN.

TUESDAY NEXT, FEBRUARY 9, 1909.

MESSRS. JACKSON & COMPANY beg to announce that they have been favoured with instructions to SELL by AUCTION, at the above address on the day named, the whole of the STOCK, FIXTURES, FITTINGS, TRADE UTENSILS, etc., contained on the premises, including 20-ft. Drug Fixture. 130 Drawers and 10 Lockers, 17-ft. Counter, 13-ft. Wall Casing, Counter Cases, 2 Wall Cases (9 ft. by 2 ft. 9 in.), 5-ft. Dispensing Screen. 6-ft. Window Enclosure; all solid mahogany and in excellent condition; 230 Shop Rounds and Jars, Carboys, Scales and Weights, Mortars, Pill Machines, Tincture Press, Drugs, Sundries, Patent Medicines, Soaps, Brushes, etc., etc., and all Sundry Goods and Utensils usually connected with a good-class Chemist's Business.

Sale at 11.30 A.M. prompt. No Reserve.

On view from 9 A.M. morning of Sale.

Auctioneers' Office: 16 Stratford Avenue, Rochdale.

TENDERS.

ROYAL SEA-BATHING HOSPITAL, MARGATE.

TENDERS are invited for the supply of DRUGS and SURGICAL DRESSINGS for the 12 months from March 1, 1909, to February 28, 1910.

Forms of Tender, to be returned by February 12, 1909, are to be obtained from the Secretary at the Offices of the Hospital, 13 Charing Cross, S.W.

FOR SALE.

FOR SALE, Patent Tablet-making Machine by Wm. Freck & Co., Chicago; nearly new, with extra dies; price low, or offers invited. Geo. Barlow, 39 Glebe Street, Stoke-on-Trent.

PLATE-GLASS shelves for window, second-hand, one set of three plate-glass shelves, 3 ft. by 12, 9, and 6 in. wide respectively, with standard bars and brackets, 30*s.*; one set of ditto, 4 ft. long by 15 in., 12 in., and 9 in. wide, with standard bars and brackets, 42*s.*; one set of ditto, 5 ft. long by 15 in., 12 in., and 9 in. wide, with standard bars and brackets, 55*s.*; one set of ditto, 6 ft. long by 15 in., 12 in., and 9 in., with standard bars and brackets, 63*s.* R. Tomlinson & Sons, Bond Street, Constitution Hill, Birmingham.

TO LET.

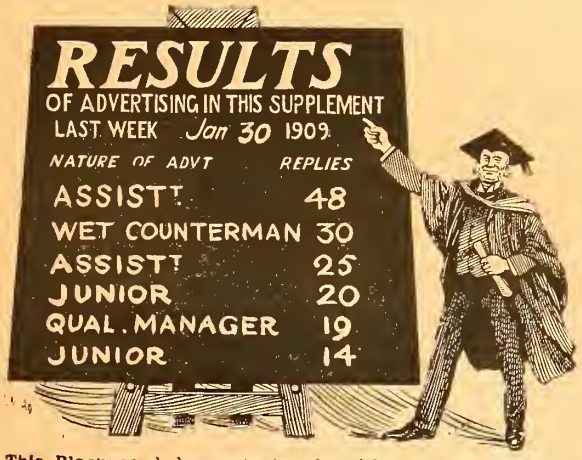
HIGH STREET, Harlesden.—Modern Shop to be Let, in the best position, with excellent living-rooms and back entrance; a first-rate opening for a Chemist and Druggist, in an established centre; rent £100 per annum, with a period free, or the shop might be fitted. Apply to Messrs. H. E. Foster & Cranfield, Surveyors, 6 Poultry, E.C.

SHEFFIELD.—To Let shortly, Saleshop in centre of the city, near Post-office and market; established for close on 100 years; low rental; large premises. Apply, W. Smith & Sons, 16 Campo Lane, Sheffield.

STREATHAM.—Shop to Let; splendid opening for Chemist's and Druggist's; no other Chemist in the road; 86 Moyser Road, Streatham. Apply, H. Thorp, 42 Pretoria Road, Streatham Park, S.W.

SITUATIONS OPEN.

3*s.* 6*d.* *for* 50 *words or less;* 6*d.* *for every* 10 *words beyond, prepaid.*



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

RETAIL.

JUNIOR required, just out of apprenticeship, for Stocktaking and office work; London; must be smart and quick at figures; permanency if suitable. Apply by letter, stating salary required, to "X. Y. Z.," 122 Clonmell Road, West Green, N.

BOLTON.—Smart, young qualified Assistant wanted for Counter; modern cash trade. Waller & Riley, Ltd., Bolton.

BRADFORD.—Wanted, for lock-up shop in working-class district, Manager; 26 to 30; abstainer; qualified; Extractor preferred. State salary and all usual particulars, Faull, 206 Westgate, Bradford.

BRIGHTON.—Junior Assistant wanted in Light Retail business; outdoors; half-day holiday weekly. Photo (to be returned), with references and salary required, to Marten, 40 London Road, Brighton.

BRIGHTON.—Wanted, immediately, Junior Assistant; indoors. State age, height, and salary required, with reference, F. Adams, 56 Marine Parade, Brighton.

BUXTON.—Assistant (about 24) for good-class Dispensing and Retail; indoors. State age, salary, height, when at liberty, and references, to A. Thresh, Buxton, Derbyshire.

CHESHIRE (within easy reach of Manchester).—Wanted, Junior Assistant for good-class and Mixed Country business; half-holiday every week; no Sunday duty. In reply please state age, height, experience, and salary required (outdoors), 162/10, Office of this Paper.

CHINA.—Junior qualified Assistant, about 24; three years' agreement; short hours; liberal terms; passage paid out and home. Apply, Dakin Brothers, 82 Middlesex Street.

CHINA.—A qualified Assistant for high-class Chemist's and Druggist's business; aged 22 to 28; must have had good experience in first-class house; liberal salary offered, and passage paid out and home. Address, "China" (168/30), Office of this Paper.

COLOMBO.—Junior qualified Chemist's Assistant (about 23), with Optical knowledge preferred; liberal terms; short hours; passage paid out and home; 4 years' agreement. Apply, by letter only, giving full details of experience, to Dakin Brothers, Ltd., 82 Middlesex Street, Bishopsgate Street, E.C.

DORCHESTER.—Assistant for brisk Counter trade; reliable Dispenser, knowledge of Photography; outdoors; hours 8 to 8. State age, height, salary, if single, and reference with first application, Evans, Chemist, Dorchester.

DROYLSDEN.—Wanted, a qualified Branch Manager; must be a smart Counterman and used to Cash trade; abstainer and Extractor preferred; the latter not necessary. Please send full details, with references, to Griffiths, Chemist, Droylsden.

HELSTON, CORNWALL.—Good all-round Assistant for Country business; qualified preferred; must be energetic, gentlemanly, and obliging; good Counterman, with knowledge of Photography and Agricultural trade; married man with furniture could live on premises if desired. Full particulars, with references, age, height, salary required, photo, etc., to Martin, Chemist, Helston, Cornwall.

HIGH BARNET, N.—Wanted, at once, a qualified Assistant; outdoors; a good Salesman with Dispensing experience essential. Apply, stating salary required, experience, age, and height, enclosing photo (which will be returned), to Edwards, Chemist, Barnet, London, N.

SITUATIONS OPEN *(continued).*

KARACHI INDIA.—An unqualified Assistant wanted with Wholesale knowledge; age about 24; not afraid of work; salary £140, £160, £180, and £200; outdoors; single; 4 years' agreement; passage, second class, paid out and home. Apply, with photo and testimonials, to "R. L.," c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

LECHLADE (on the Banks of the Thames).—Wanted, qualified Assistant, single, aged about 25, for small Country business; Photographic work; indoors; easy hours; no night or Sunday duty. Full particulars with photo, unless interview can be arranged, to Mrs. G. A. Davis, Lechlade, Glos.

LONDON, S.W.—Qualified Junior wanted at once; no Sunday or Bank Holiday duty. S. F. Goss, Ltd., 17 Brompton Road, S.W.

LONDON, S.E.—Wanted, at once, Junior or Improver accustomed to best-class Dispensing and Retail business. Reply, by letter in first instance, stating age, height, experience, salary (indoors), and when disengaged, Hedley Masson, The London Road Pharmacy, Forest Hill, S.E.

LONDON, W.—Qualified Assistant, accustomed to good-class Dispensing and Retail business, wanted, immediately. Apply, Manager, S. F. Goss, Ltd., 134 Regent Street, W.

LONDON, N.W.—Assistant, qualified preferred, about 25, experienced and of gentlemanly appearance, for good-class Retail and Dispensing; indoors. Usual particulars, "Pharmacist" (165/24), Office of this Paper.

LONDON, W.—Smart Junior Assistant (about 21) accustomed to Dispensing; indoors. Apply, stating salary required, etc., W. A. Weston, 78 Broadway, Ealing.

LONDON, W.—Part-time Junior wanted; outdoors; 8.30 to 10.30 mornings, 12.30 to 2.30 midday, and two days from 2 to 10.30 P.M. Send particulars and state salary required to F. G. Turner, 67 Fernhead Road, Paddington, W.

PORTH, GLAM.—An outdoor Assistant for Country business; half-holiday weekly; no Sunday duty. State age, experience, salary required, and when disengaged, T. Davies, Pharmaceutical Chemist, Porth.

PORTISHEAD.—Junior Assistant; unqualified; outdoors. Full particulars of experience, age, height, and salary required, enclosing photo, to H. W. Bryan, The Pharmacy, Portishead, Som.

ST. GEORGE'S HOSPITAL, Hyde Park.—Wanted, strong lad (18 to 20) used to handling Drugs and General Laboratory work. For wages and any other information apply to the Dispenser between 10 and 4.

ST. LEONARDS-ON-SEA.—Thoroughly competent Assistant; 25 to 30; must be experienced in best-class Pharmacy; no Optics, no Photography; permanency; outdoors. Applicants will oblige by giving full particulars at once, stating salary required and last two references, Ewbank Smith, 5 Norman Road.

SHEFFIELD.—Wanted, about February 15, a qualified Assistant for the Mixed Retail trade in a working-class district; one having had some experience in this class of trade preferred; permanency; Thursday half-holiday; no Sunday duty; outdoors; aged between 23 and 40; references to be sent for strict investigation. Exor. J. Watts, 596 Attercliffe Road, Sheffield.

SOUTH COAST.—Doctor requires a male qualified Dispenser and Bookkeeper; outdoors; state full particulars and qualifications, whether single or married, and salary wanted. Apply, 163/30, Office of this Paper.

SOUTH LOWESTOFT.—Junior qualified Assistant wanted; well up in Dispensing. Apply, with usual particulars, to Coleman Brown, 216 London Road, South Lowestoft

SOUTH OF ENGLAND.—Smart, gentlemanly Assistant required; aged 23 to 30; good salary and permanency for suitable man; must possess exemplary character for honesty, sobriety, and ability as a Salesman. Timothy White Co., Ltd., Portsmouth.

SOUTHAMPTON.—Smart Junior Assistant; qualified; outdoors; good Stockman; used to quick Counter. Full particulars, W. Bates & Co., Ltd., 50 Oxford Street, Southampton.

SOUTHSEA.—Junior (outdoors) in good-class Dispensing and Retail. Apply, stating age, height, experience, references, and salary required, to Bell, Chemist, The Strand, Southsea.

SPALDING.—Junior or Improver; Mixed Country business; easy hours; weekly half-holiday. State age, height, experience, references, and salary required, to Molson, Chemist, Spalding.

TEDDINGTON.—Wanted, a smart qualified Assistant; age about 23 to 25; must have had good Dispensing experience and well recommended. Apply, usual particulars, to P. Stacey, Major Pharmacist, High Street, Teddington, S.W.

WEST OF ENGLAND.—Immediately; qualified, steady Assistant (30-35) for good-class business in market town; outdoors; easy hours; no Sunday duty; half-day weekly; a knowledge of Agriculture and Photography essential; permanency; only one kept. Full particulars and two last references, with photo, salary, etc., 163/20, Office of this Paper.

WORCESTER.—Wanted, an Assistant (indoors) for good-class business where two others are kept; weekly half-day holiday. Apply, with full particulars, and enclose photo, to George & Welch, Chemists, Worcester.

BRANCH Manager wanted at once: Minor qualification; about 25 to 35 years of age; must have had good business training, energetic and enterprising; an abstainer preferred. Apply, stating full particulars, age, height, whether married or single, to 165/20, Office of this Paper.

J. SAVAGE & CO., LTD., Chemists, Bradford, have vacancy for qualified Manager in Store in middle-class district owing to death of present manager; young married man preferred; good Counterman; state age, salary required, and experience; house and garden attached. J. Savage & Co., Ltd., Bradford.

JOHN BARKER & CO., LTD., Kensington, W., require a Dispenser; good penman; personal application preferred. Apply, R. E. Barch.

JUNIOR; easy hours; weekly half-holiday; no Sunday duty; time for study if desired. State salary required, for indoors and for outdoors, with usual particulars, Lewis Jones, Chemist, Kidwelly.

JUNIOR wanted; outdoors; Light Country Retail; half-holiday weekly; easy distance from London; part-time could be arranged. Apply, stating age, height, experience, and salary required, to "H." (168/9), Office of this Paper.

LEWIS & BURROWS have a vacancy for a first-class qualified Dispenser for the West-end. If application is made by letter, please enclose photograph and full particulars to 22 Great Portland Street, W.

QUALIFIED Assistant; aged from 26 to 36; about first week in March; indoors. Full particulars as to age, height, references, experience, photo, etc., to "Aspirin," c/o Davy Hill & Co., 64 Park Street, London, S.E.

QUALIFIED Assistant wanted to take principal charge, with an occasional day at branch shop; young man; indoors preferred. State age, experience, and qualifications (personal character of great importance), 163/22, Office of this Paper.

QUALIFIED Branch Manager for Colliery district; Welsh speaking; abstainer; one seeking permanency; must be thoroughly reliable. Photo and particulars to D. George, Pentre, Glam.

REGISTERED Dentist wanted for Dental Branch in Lancashire town; must be temperate and good Extractor; knowledge of Mechanical work immaterial. Apply, stating particulars, references, and salary required, to "Dentist," "Abbotsford," Morecambe.

VACANCY for qualified man in Family Dispensing business in West London; applicant for post must be methodical and have knowledge of modern Store methods, as well as being good Dispenser and Compounder; a knowledge of bookkeeping will be a recommendation. Apply to "E." (168/13), Office of this Paper.

WANTED, a qualified Branch Manager; house in connection with shop; abstainer necessary and Extractor preferred. Shall be glad of full particulars to "G.," Chester House, Chester Square, Ashton-under-Lyne.

WANTED, steady and reliable Assistant, unqualified, for quick Cash business in London; aged about 30. State age, experience, salary required, and give references, to 166/4, Office of this Paper.

WHOLESALE.

A LEADING London Optical house have a vacancy for a Showroom Salesman; he would eventually be expected to take the post as Traveller either at home or abroad; previous Wholesale experience preferred, but not indispensable; S.M.C. qualification desirable; liberal terms would be made with a gentleman of undoubted good character and address; communications will be received in strict confidence, and applicants must state full particulars of their present position, age, and wages expected. Apply, "Enterprise" (134/59), Office of this Paper.

ASSISTANT required as Salesman in the Showroom of a firm of Manufacturing Chemists; conversant with the requirements of the profession; must be of good address and appearance, and possess at least the Minor qualification. Apply by letter to "S. H. B." (201/05), Office of this Paper.

JUNIOR.—A vacancy occurs in a City firm of Manufacturing Chemists for a Junior; preference given to one holding the Minor qualification and inventive talent. Apply by letter to "J. D." (201/5), Office of this Paper.

OFFICE, Export Druggists, London.—Managing Clerk with first-class experience of routine of Shipping Invoicing, etc., who has had two or three others under his control; none but those thus qualified entertained; state full particulars and salary expected; good opportunity for competent and energetic man. Apply, with full particulars, to 197/51, Office of this Paper.

OLD-ESTABLISHED Wholesale Druggists, West of England, require Clerk of good experience; invoicing, ledger work, and correspondence. Apply, "Beta" (165/32), Office of this Paper.

REPRESENTATIVE required by firm of Wholesale Druggists and Manufacturing Chemists, to call upon London Doctors; previous experience not essential, but must be of gentlemanly appearance and possess good practical knowledge of Drugs and Therapeutics. Apply, stating age, experience, salary, etc., "Statim" (198/9), Office of this Paper.

REPRESENTATIVE required by a well-known firm; must have a thorough knowledge of Instruments and Rubber Goods; salary and commission paid. State full particulars, age, experience, etc., 146/38, Office of this Paper.

REPRESENTATIVE wanted to carry Side-line, special novelty, on commission (10 per cent.); sample could be carried in waistcoat pocket. Address, 200/18, Office of this Paper.

REQUIRED, by Wholesale Druggist's, a man for Wet Counter; only those accustomed to putting-up Oils and heavy goods need apply. State wages, 163/4, Office of this Paper.

TRAVELLERS required, with connections in London and suburbs (N.W., W., and S.W., and 100 miles out) among consumers and dealers in Oils, Varnishes, Colours, and kindred goods; anyone possessing the above qualifications can make a very remunerative income; preference given to those taking same as a Side-line. Apply, c/o Deacon's, Leadenhall Street, E.C.

WANTED, by old-established concern, a first-class, experienced Traveller having large connection with Chemists and Wholesale throughout England (except London), to introduce an entire new line of Suspensory Bandages, etc., on commission; good prospects for smart, energetic man as Side-line; assistance given. "Progress" (160/31), Office of this Paper.

WANTED, by a firm manufacturing Fine Chemicals and Alkaloids, an experienced Works Chemist capable of carrying out Research work on practical lines; applicants must have good technical training and qualifications, and, when applying, give full particulars, stating age and salary required. Address, "Ton," c/o Street's, 30 Cornhill, E.C.

WANTED, Assistant for the Steam Laboratory of a London Manufacturing Drug house; aged about 21, and preferably with previous experience of the trade. Address, stating wages expected, etc., to "Infusion," c/o Street's, 30 Cornhill, E.C.

WANTED, by a very old-established house, a smart Salesman, who is already calling on Chemists, to take up and push as a Side-line the sale of a first-class Household Remedy for all Aches and Pains; extensive advertising scheme to commence immediately to support his efforts; good remuneration to really good man. Apply, enclosing photograph and all necessary information, to "Chemicus" (157/60), Office of this Paper.

WANTED, for the Tablet and Pill department of a London Wholesale Drug house, a smart Assistant of experience, and preferably with a knowledge of the Sugar-coating machine. Address, stating wages expected, etc., to "Mass," c/o Street's, 30 Cornhill, E.C.

WELL-ESTABLISHED Drug-house in North of England, doing business principally with Medical men, requires a qualified Traveller of experience; would be expected to invest about £600 or thereabouts, with option of acquiring further interest as convenient. Write, stating age, experience, etc., to "X." (164/18), Office of this Paper.

WET Counter.—Smart Junior required for London Wholesale house. State full particulars of past experience, age, salary expected, etc., to 168/2, Office of this Paper.

WET Counter hand, aged about 18, required by London house; must have trade experience. State particulars of previous situations, wages expected, and if disengaged, to 168/26, Office of this Paper.

YOUTH required in Wholesale Drug Merchant's office; aged 16 to 18. Apply, in own handwriting, stating previous experience and wages required, to "D. W." (165/39), Office of this Paper.

APPRENTICESHIPS.

WEST HAM UNION.—APPRENTICES.—The Guardians are desirous of Apprenticing several boys between the ages of 14 to 16 years to various trades; premium, £15 and outfit of clothing; wages to be paid to apprentice: 1*s.* per week during first year, 2*s.* per week during second year, 4*s.* per week during third year, 6*s.* per week during fourth year, and 8*s.* per week during fifth and last year of apprenticeship. Applications should be addressed in the first instance to the Clerk to the Guardians, Board Room, Union Road, Leytonstone, N.E. January 30, 1909.

SITUATIONS WANTED.

1*s. for* **12** *words or less;* **6***d. for every* **10** *words beyond, prepaid.*

RETAIL.

LOCUM or Part-time; qualified; abstainer; active; disengaged. "Borax," 535 Holloway Road, N.

LOCUM; qualified; excellent references; disengaged. "Caius," 21a Castletown Road, West Kensington.

MANAGER, Managing Assistant, Locum; good experiences; references. "Qualified," 23 Wood Lane, Shepherd's Bush.

ASSISTANT in London; age 24; time for study and attending lectures; good references. Please state full particulars, "Dispenser," c/o Smith, Chemist, Newark

JUNIOR (21), in good-class business; 3½ years' good experience; disengaged; good references; West of England preferred. Reed, Linhay, Westonzoyland, Bridgwater.

QUALIFIED Chemist, with wide experience of Management, desires same position; provinces or suburbs; disengaged end of February. "Pyro," 172 Warwick Street, S.W.

JUNIOR Assistant; 22; first-class Dispensing and Photographic experience; Birmingham district preferred; outdoors. E. J. Bromage, Viola Cottage, Roden Avenue, Kidderminster.

UNQUALIFIED; tall; good experience; age 29. "Rhei," 32 Lock Road, Broadheath, Cheshire.

UNQUALIFIED; thoroughly experienced; Counter or Dispensing; disengaged. "Wax," 97 High Street, Dovercourt.

SENIOR or Branch; unqualified; 30; tall; good references; liberty early February. "Aspirin," 16 Shaw's Lane, Altrincham.

DISPENSER to Doctor and Bookkeeper; excellent references; disengaged; London. "S. S.," 175 Kennington Road, S.E.

QUALIFIED; 22; tall; good, all-round experience; outdoors. A. Haywood, Blackmoor Road, Crosland Moor, Huddersfield.

ASSISTANT; unqualified; age 29; height 5 ft. 10½ in.; present situation 4 years; permanency; liberty February 9. "Rheedos," Rose Lea, Cranford Avenue, Knutsford, Cheshire.

MANAGER; London, West-end or City; qualified; gentlemanly appearance; unique experience; first-class record; intimate knowledge modern Store trading; fullest details at interview. "S. B.," c/o R. J. Reuter & Co., 5-7 Denman Street, Piccadilly, W.

ASSISTANT; 5 ft. 10 in.; aged 28; West-end, suburban experience; Photography, Dispensing, Counter, etc.; energetic; unqualified; outdoors; good references. "Statim," 68 Dagnan Road, Balham, S.W.

SITUATIONS WANTED *continued*).

JUNIOR; near College; tall and obliging. Boulton, The Green, Winchmore Hill, N.

MANAGER; qualified; elderly; active; single; best varied experience. "B.," 11 Boutflower Road, S.W.

QUALIFIED; 23; outdoors; London preferred; good reference. Foster, Eastfield, Cranswick, Beverley, Yorks.

EXPERIENCED Manager or Assistant; 26; highest references; permanency. Reservoir House, Codnor Park.

OUTDOORS; reliable Assistant; West-end and provincial experiences; unqualified. 164/12, Office of this Paper.

JUNIOR; 20; Lancashire preferred; reference. Particulars, apply, Morris, 24 Bolton Road, Moses Gate, Bolton.

EXPERIENCED; Dispensing and Counter; qualified; outdoors; disengaged. "Salol," 32 Redburn Street, Chelsea.

ADVERTISER seeks position in Retail or Wholesale; experienced. "Anthoney," c/o Rowe, 104 Brighton Road, Croydon.

JUNIOR; 5 years' experience; good references; London preferred. Thomas, 209 Pershore Road, King's Norton.

UNQUALIFIED; 30; good references; Midlands preferred; all-round man. "Chemicus," 18 Longbrook Street, Exeter.

CAPABLE, unqualified Assistant; 26; excellent references; permanency. "Aspirin," Central Pharmacy, Matlock Bank.

JUNIOR or Improver in Dispensing Business; Photography; abstainer; good references. Sarginson, 9 Fern Bank, Lancaster.

LOCUM, Manager, or Assistant; qualified; London and provincial experience; disengaged; good references. 164/19, Office of this Paper.

UNQUALIFIED; 31; married; 14 years' first-class experience; Counter or Dispensing; permanency. "Xaxa" (164/23), Office of this Paper.

YOUNG man requires evening employment; age 18½; quick at Counter, Dispensing, Photography; state salary. "E.," c/o Tottle, Epsom.

M.P.S.; Manager; experienced; permanency, temporary; Optics; London or near. "Disengaged" (164/38), Office of this Paper.

LOCUM or Branch Manager; qualified; disengaged; experienced in good General and Dispensing business. S. V. Holgate, 2 Peveril Drive, Nottingham.

DISENGAGED February 11; qualified; 22; 5 ft. 5 in.; energetic Dispenser and Counterman; London or district preferred. Roffey, 7 Pall Mall East, S.W.

MANAGER; qualified; married; age 31; 15 years' first-class experience; excellent references. Mitchell, 10 William Street, New Conisbro', near Rotherham.

SMART Assistant; age 23; 6½ years last berth; good Window-dresser, Stockkeeper, and Counterman; excellent references; vacant. "Jackson," 19 Cambray Road, Balham.

MANCHESTER or district; qualified; 24; tall; Photography; excellent references and experience; time for afternoon or evening classes. Fletcher, 50 King's Road, Prestwich, Manchester.

ADVERTISER (37), single, seeks comfortable berth; capable, reliable, active, obliging; permanency desirable; salary moderate; references. "G.," c/o Mr. J. R. Bawden, Green Lane, Redruth, Cornwall.

DISENGAGED; recently sold business; temporary or permanent; Locum or Assistant, with option to purchase; terms moderate. "Menthol," c/o Beresford Villa, Ashcombe Gardens, Weston-super-Mare.

QUALIFIED; 28; good all-round experience. Address, 167/31, Office of this Paper.

PART-TIME; evenings after 7, Saturdays 3 "Qualified," 51B Morat Street, S.W.

JUNIOR Assistant; good all-round experience. "Aspirin" (164/33), Office of this Paper.

PART-TIME Dispenser; London or suburbs; experienced; references. "G.," 104 Clapham Road.

QUALIFIED (30) desires Night berth (8 till 1); London. State salary, 168/28, Office of this Paper.

PART-TIME; mornings, afternoons, or evenings; excellent references. "B.," 29 Royston Road, S.E.

QUALIFIED; tall; 9 years' good all-round experience; Senior or Manager. 167/29, Office of this Paper.

MANAGER; married; qualified; permanency; good references. "Velox" (166/5), Office of this Paper.

BRANCH Managership; 36; qualified; married; permanency. "Cortex" (168/25), Office of this Paper.

QUALIFIED; 26; West-end and country experience; good Dispenser; disengaged. 164/37, Office of this Paper.

QUALIFIED; 38; experienced; references; abstainer; disengaged shortly. "Hydrogen," 1 Henley Road, Southsea.

PART-TIME required by Minor Student; excellent experience; best references. Apply, 168/15, Office of this Paper.

UNQUALIFIED; disengaged; good Dispenser, etc.; reliable. "E. A. L.," 37 Charteris Road, Tollington Park, London.

ASSISTANT; active; disengaged; references; 15 years' experience. Fawcett, "Blencogo," Dinarth Road, Colwyn Bay.

MANAGER; qualified; 37; energetic; highest West-end references; not afraid of work; abstainer. 168/29, Office of this Paper.

MANAGER; permanency; town or country; unique experience; active; middle-aged. "M.P.S." (163/17), Office of this Paper.

QUALIFIED; 29; tall; abstainer; disengaged; good appearance; thoroughly reliable. "Statim" (166/17), Office of this Paper.

EXPERIENCED Assistant; 35; temporary or otherwise; outdoors; Photography; French. "Statim," 137 St. George's Road, S.E.

IMMEDIATELY; Manager-Senior; 35; qualified; outdoor; last reference 3½ years. "Photo," 87 Lower Bank Road, Fulwood, Preston.

QUALIFIED Manager or Assistant; experienced in management; Prescriber, Extractor; 35; permanency; married. 163/301, Office of this Paper.

JUNIOR; disengaged; excellent Dispensing experience in the West-end; good references; London preferred. Walton, Cranbourne Court, Albert Bridge, S.W.

UNQUALIFIED; all-round experience; good appearance and address; 24; country town, with facilities for study preferred. Write, 166/8, Office of this Paper.

MANAGER; 33; single; qualified; reliable, energetic; City, West-end, and suburban Store experience; Art Photography, and Optics. Apply, 168/23, Office of this Paper.

UNQUALIFIED; 26; disengaged; good all-round experience; Photography; life abstainer; reliable and energetic; excellent references. Grant, 10 Shinfield Street, Wood Lane, W.

MANAGER or Assistant; qualified; good-class experience, including several years' South Coast; Prescribe, Extract; married; 35; would live on premises; permanency desired. 163/31, Office of this Paper.

CITY, West-End Hospital, and Manufacturing experience; married, no family; wife thorough cook, needlewoman, and domesticated; workers; references. "Presto," 35 Market Street, Paddington.

JUNIOR; 20; country business preferred; good references. Matthews, Innisvale, Totnes.

LIVERPOOL.—Evenings from 6 P.M.; qualified. "M.P.S.," 8 Norbury Avenue, Wavertree.

LADY Dispenser; qualified; Locum or permanency. "L.," 76 Bedford Road, Ilford, Essex.

LADY Dispenser; disengaged on February 14. "M. C.," 47 Melgund Road, Highbury, N.

JUNIOR; disengaged March 1; Bristol preferred. Hutchings, 10 Victoria Street, Clifton, Bristol.

UNQUALIFIED; 24; outdoors; London. Martin, 13 Pursers Cross Road, Parson's Green, S.W.

LADY, qualified Dispenser, desires post with Doctor; good references. Bird, 43 Cedar Road, Northampton.

JUNIOR; 19; tall; Dispensing and Photography; time for study. McClarence, Carlisle Street, Longton, Staffs.

QUALIFIED; 22; outdoors; good references; disengaged. McKinlay, Pikes Lane, Glossop, Derbyshire.

PART-TIME, all day, or half-days at 2 P.M.; highest references; take charge. "Peps," 24 Delancey Street, N.W.

QUALIFIED; 31; tall; married; Counter, Dispensing, Photography. Gordon, 74 Replingham Road, Wandsworth.

QUALIFIED; 25; 9 years' good-class experience; energetic and reliable; disengaged. Le Rossignol, 11 Parade Road, Jersey.

GERMAN Druggist, speaking English, good correspondent and bookkeeper, wants situation. "H. W." (160/30), Office of this Paper.

QUALIFIED; 29; Dispensing, Photographic, Optical, Counter experience; good references; London; outdoors; disengaged. 161/39, Office of this Paper.

MANCHESTER.—Assistant; 21; 5½ years' high-class Dispensing and Counter experience; height 5 ft. 10½ in. Jarvis, c/o Messrs. Whysall & Son, Grantham.

LOCUM.—Mr. Vizer, Pharmaceutist, 8 York Road, Tunbridge Wells (abstainer), late Chemist to H.R.H. the Princess Royal, is now booking engagements forward.

BRANCH Manager; qualified; single; tall; Photography; high-class experience; country preferred; indoors or outdoors. "E.," 372 London Road, Thornton Heath.

BUYER and Manager for well-known Multiple-shop Company requires similar situation, or as Director; every information given in confidence. Write, 162/2, Office of this Paper.

QUALIFIED; 24; good Dispenser; Counter, Photography; good references; country district; outdoors; with or without view to ultimate succession. Brown, Madeira Hill, Wrexham.

LADY Chemist would give few hours' service weekly to Chemist or Doctor in London in return for two rooms, furnished or unfurnished. "Ad Valorem" (162/8), Office of this Paper.

LOCUM or Part-time in Manchester district; 24; qualified; reliable; good references; Store and high-class Dispensing experience. "Optics," 7 Victoria Grove, Victoria Road, Withington.

CHEMIST, fully qualified, M.P.S., desires engagement as Manager; London or country; active and energetic; married; excellent testimonials. "C.," 55 Ferme Park Road, Stroud Green, N.

ASSISTANT, unqualified, tall, good appearance, excellent references, 5 years' varied experience, Photography, Dispensing, and Counter, open to engagement on the Continent. Apply, 162/14, Office of this Paper.

MANAGER; qualified; 20 years' experience, Agricultural, Town, Photographic, Optical; abstainer; married; unexceptional references; permanency; country preferred. "Extractor," 22 Hamilton Gardens, St. John's Wood.

QUALIFIED; full or part time; Institution preferred; moderate. "M.P.S.," 18 Kitson Road, Camberwell.

RELIEF or Part-time; good experience; disengaged; unqualified. "S.," 12 Coniston Road, Addiscombe, Croydon.

LONDON.—Experienced; 22; evenings free for classes; disengaged; abstainer. Mills, "Ashton House," Bath.

EXPERIENCED Dispenser and Bookkeeper; good testimonials. "Reliable," 98 Milkwood Road, Herne Hill, S.E.

JUNIOR Assistant; Mixed Family trade; Manchester district preferred. "J. A.," 6 Orchard Street, Preston.

QUALIFIED; 26; tall; experienced; Senior or Manager; outdoors; London. Wilson, 81 High Street, Teddington.

PERMANENCY or Locum; excellent Salesman; fluent French; Photographic. "Optics," 47 Swinegate, Grantham.

JUNIOR, knowledge Photography, requires situation; Birmingham preferred. "S. C.," 94 Regent Street, Smethwick.

DISPENSER (Male); thoroughly experienced in Institution and private practice. Jones, 55 Clancarty Road, Fulham, S.W.

DISENGAGED; unqualified; 33; varied experience; Locum, permanency. "Brisk," 54 Darnell Street, Newcastle-on-Tyne.

JUNIOR; 21; 4½ years' good all-round experience; abstainer; disengaged; outdoors. Hancock, 8 Mount Gold Road, Plymouth.

DISPENSER and Masseuse; qualified; Locum or permanency; good testimonials; experienced. 162/40, Office of this Paper.

QUALIFIED; permanency; 24; good-class Dispensing and Counter experience. T. W. Bolton, 52 Rothes Road, Dorking, Surrey.

ASSISTANT; 36; tall; good experience; 6 years in last situation; married; permanency. "S.," 42 High East Street, Dorchester.

ASSISTANT, having had one year's College training, seeks engagement; references. Evans, Forster Street, Smethwick.

ASSISTANT; 22; tall; good experience; capable; French and Photography. "Pyrozone," 54 Grosvenor Terrace, Camberwell.

BRANCH Manager; qualified; 7 years' London and country experience; disengaged March 1. A. Dean, 64 Lower Kennington Lane, S.E.

ASSISTANT requires situation; outdoors; Birmingham district preferred or Midlands. H. Walker, 4 Tower Road, St. Leonards-on-Sea.

QUALIFIED; middle-aged; whole or part time outdoors, or Locum, half-day, day, or more weekly. "G.," 9 Wanstead Park Road, Ilford.

MANAGER; qualified; best-class experience; good Prescriber; permanency or Locum-tenens; terms moderate. "C. D.," Colville Library, Talbot Road, W.

PART-TIME; first-class experience; good references; Chemist or Doctor; Clapham district preferred. Apply, "J. B.," 82 Abbeville Road, Clapham Park, S.W.

BRANCH Manager or Assistant; 31; good Counterman, Prescriber; excellent references; 3 years present berth; married; disengaged 15th. "Extractor," 223 Kilburn Park Road, N.W.

QUALIFIED Pharmacist (30) desires position as Manager to first-class firm; thoroughly experienced in all branches; 15 years' experience (10 years London); best references; abstainer; married. "Aspirin," 25 Park Parade, Harlesden.

F.S.M.C.; 29; 13 years' good-class Pharmaceutical experience; unqualified; Photographic; would assist develop or start Optical department; South preferred. "Refraction" (162/1), Office of this Paper.

CHINA, India, S. Africa.—Advertiser desires good position; unqualified; 27; Wholesale and Retail; 13 years' experience; all-round man; not afraid of work; Colonial experience; Hindustani spoken; must be a healthy climate. 161/43, Office of this Paper.

RELIABLE Dispenser; capable Manager or Assistant; good Prescriber; 10½ years' good all-round experience, mostly Store trade; excellent references; Hall qualification; 26; single; 5 ft. 9 in.; disengaged February 22. "H. R.," 20 Llanbleddian Gardens, Cardiff.

ASSISTANT, unqualified, married, no family, seeks permanency in country; would not object to live over premises; London and provincial experience; thoroughly reliable references. "A." (165/17), Office of this Paper.

ASSISTANT and Branch Manager desires re-engagement; aged 38; married; abstainer; excellent references; Dispensing, Photography, Veterinary, Prescribing, Optics; can work up business; country; permanency essential; unqualified; energetic worker. 164/5, Office of this Paper.

TO Chemists or Doctors.—A reliable, steady man, with varied experience in good-class Country businesses—East, West, North, and South—as Assistant or Dispenser; West preferred; filled positions of trust and responsibility; irreproachable references; qualified by experience only; married; 45. "Tabloid," 15 Lincoln Road, South Norwood.

WHOLESALE.

ORIGINAL Travelling and Window-dressing Schemes; interview invited. Pierce, 10 Lunham Road, Upper Norwood, S.E.

SITUATION wanted; Drug Packer, Export and country; aged 27; experience, 10 years. 165/5, Office of this Paper.

SITUATION required; 11 years' experience Retail and Wholesale; good references; aged 30. 163/35, Office of this Paper.

TRAVELLER; young; good address; London and suburbs; easy terms; highest references. 167/33, Office of this Paper.

WAREHOUSEMAN; 25; good knowledge Sundries and Instruments; good references. "O. T.," 14 Mostyn Terrace, Brixton.

REPRESENTATIVE open to re-engagement; well recommended; connection, Drugs, Sundries; salary, expenses. "Pharmacist" (167/26), Office of this Paper.

PHOTOGRAPHIC or Surgical Instrument house wanted to share expenses with two other houses in sending a Representative to India. 161/34, Office of this Paper.

REPRESENTATIVE; 4½ years' experience, town and country; excellent connection and references; fluent French; good houses only need apply. 158/35, Office of this Paper.

GENTLEMAN (38), experienced, desires to Represent first-class Drug or Surgical Instrument house at home or abroad; disengaged March. "Fidelis," 1 Fairlawn Court, Chiswick Park, London, W.

TRAVELLER or position of trust; 14 years' Wholesale, Retail, home, and Colonial experience; town and country connection; Drugs, Sundries, Packed Goods. "Control," 9 Ermine Road, Lewisham, S.E.

ADVERTISER, good business experience, capable Accountant, requires engagement; Correspondence, Books, or general work; long references; salary moderate. Reply, "N. M." (118/20), Office of this Paper.

TRAVELLER (34), thoroughly experienced Drug and Allied Trades, good connection, knowledge of Instruments, etc., would Represent first-class house on commission and expenses; 8 years last situation. 162/7, Office of this Paper.

GENTLEMAN resident in Newcastle-on-Tyne desires position as Traveller or good Agency for Northumberland, Durham, and North Yorkshire; Retail and Wholesale experience, and knowledge of the road; good appearance and address. 163/21, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—190 Allen & Hanburys 6 per cent. "A" Prefs., 24*s.* 10½*d.*; 526 Camwal Ordinary 1*s.* 9*d.*, 151 Prefs. 8*s.* 7½*d.*; 300 Synoloids (proprietors and manufacturers of Patent New Ensyna Paper and Ensynoids Developer) £1 fully-paid Shares, 16*s.*; 100 Molassine 7 per cent. Prefs., 18*s.* 10½*d.*; 5 Boots Lancashire 6 per cent. Second Prefs., 19*s.* 7½*d.*

WANTED (subject).—50 Evans Lescher Prefs., £5.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

VERY FINE SET OF MAHOGANY SHOPFITTINGS.—As good as now and ready for immediate despatch: 16-ft. drug-fitting, mirror centre, pilasters with carved trusses and span rails, poison cupboard, etc.; 17-ft. mahogany serving-counter, glass cases in front and drawers behind; 6-ft. bent plate-glass counter-case; perfume case and desk; tower case, 3 ft. high by 2 ft. square; 10-ft. mahogany wallcase; handsome screen, with centre mirror down to ground and cases either side, with mirror backs and glass shelves; 75 guineas complete. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, Goswell Road, London, E.C.

THIS IS YOUR CHANCE.—We have just cleared the complete set of Fittings of a Pharmacy 18 ft. by 14 ft.; all are splendidly made and in first-class condition. Write for particulars, or call and inspect; going cheap. RUDDUCK & CO., 262 OLD STREET, E.C.

DENTAL MECHANIC.—T. Barton, 194 Mansfield Road, Nottingham. Telephone 3898. Best workmanship in Vulcanite, Gold, D.A., etc.; Crowns, Bridges, and Inlays a speciality; prompt despatch my leading feature; repairs per return; every assistance and advice given to clients.

BOTTLES.—Owing to delay shippers refuse delivery; can offer 2-oz. white glass vials, marked teaspoons, at 5*s.* 9*d.* per gross; and 1½-oz. ditto at 5*s.* 6*d.*, in lots of 5 gross; cash on delivery. Apply, 198/10, Office of this Paper.

PROPRIETARY Article offered, suitable for large advertising; excellent trade-mark; profitable, universal, everyday line; suit capitalist or company requiring good line to take up; advertiser (lacking capital) is willing for good firm to give it a trial on easy terms, "or dispose outright"; a good, genuine article, well got-up, selling locally; only requires advertising for universal use. "Proprietary" (163/7), Office of this Paper.

TO UP-TO-DATE CHEMISTS.

Are you satisfied with your business; number of customers; sales of own specialities? Do you wish to increase them? If so, send P.O. for copy of booklet "How to Increase Your Business," free to any Chemist, explaining my Business-pulling System. A Chemist writes: "I am more than pleased with the result of the last two months' advertising."

J. R. B. ALLISON,
Chemist & Business Specialist, RETFORD.

Dose Tables for Students of Pharmacy.

A TWENTY-FOUR page booklet showing the adult doses in ordinary cases of the principal medicinal agents, with metric equivalents for dispensing and a complete table of atomic weights, comprising the B.P. figures and the International Committee's latest pronouncements (O=16 and H=1). The booklet measures 4 in. by 2½ in., and can be carried in the vest pocket. To be obtained from THE CHEMIST AND DRUGGIST (Book Department), 42 Cannon Street, London, E.C., for THREE PENNY STAMPS PER COPY, POST FREE.

POISONS SCHEDULE, *according to the New Act*, reprinted from THE CHEMIST AND DRUGGIST, with a supplementary list of admixtures, preparations, and other articles brought within the Schedule. On a card (Schedule in front, list at the back) to hang up; price 6*d.*, post free, from the Office of the *C. & D.*, 42 Cannon Street, London, E.C.

PATENTED Invention for Sale; very profitable novelty for good Sundry house; patentee not in position to exploit. Apply, 160/6, Office of this Paper.

NAME FOR NERVE PILL.—21*s.* has been sent to the winner of name chosen—Mr. H. Mobsby, 16 Loftus Road, Uxbridge Road, London—by the Proprietors, "Limited," 38 Cambridge Road, Battersea.

SEEDS! SEEDS!! SEEDS!!! Important to all Wholesale Buyers of New and Reliable Seeds. Brown's Wholesale List of Vegetable, Flower, and Farm Seeds for 1909 is now ready, post free. Penny Pictorial Packets, our Speciality, 3*s.* 6*d.* per 100; 31*s.* per 1,000. Send for List at once, gratis, and order your seeds fresh from the actual growers. E. P. Brown & Sons, Seed Growers, Coggeshall, Essex.

TO Apprentices, Juniors, etc.—If you wish to pass the Preliminary quickly and with little trouble, write to Mr. Charles Harker, who will coach you by post; thorough systematic teaching; numerous successes in 3 and 6 months; special attention given to those of neglected education; 85 per cent. recent successes; terms very moderate. Charles Harker, 239 Chapter Road, Cricklewood, London, N.W.

APPOINTMENTS VACANT.—The Directors of the IMPERIAL ACCIDENT INSURANCE CO., LTD., established 1878, invite applications for Agencies in unrepresented districts. Departments: Personal Accident, Employers' Liability for Accidents to Servants and Workpeople, Carriage, Motor and Driving Accidents, Burglary and Plate Glass, Horse and Cattle Insurance; liberal terms. Address, Agency Manager, 17 Pall Mall East, London, S.W.

POISONS AND PHARMACY ACT. 1908.

GADD'S CHART OF NEW CONDITIONS.
Third Edition, 6*d*. post free.
Evans, Gadd & Co., Ltd., Bristol and Exeter.

A KENTISH CHEMIST writes:

"February 3rd.—Dear Mr. Slack,—Just a line to say MY RETURNS FOR JANUARY 1909 are £20 higher than January 1908." As this chemist has been on the register only 7 months, I have already fulfilled my promise to increase his (and yours, if you let me) takings £5 a week.

Write for free booklet to-night, and read Diary Advt., page 94.

BERNARD SLACK, Princes Chambers, Wolverhampton.

Chemists' Printing.

We are specialists in Chemists' Printing, and can offer you the best and most attractive work. The foremost Chemists are our constant customers; can we serve you? Write for samples of Leaflets, Circulars, Booklets, &c., and quotations for your work.

JONES & ADNITT, The Chemists' Printers, HEREFORD. Telephone: Nat. 189.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

APPARATUS.

TWO new chemical balances; walnut, glass cases; cost £5 each; accept £2. WYATT, Broadway, Mortlake.

BOOKS AND PERIODICALS.

"THE CHEMIST AND DRUGGIST" from 1875 to 1908, with *Diary*; what offers? 161/22, Office of this Paper.

WOULD post "Pharmaceutical Journal" weekly for "Chemist and Druggist." GWYNNE, Chemist, Liscard, Cheshire.

"JOURNAL CHEMICAL SOCIETY," 1881 to 1902, complete and incomplete. Offers for lot or separately, "G.," 16 Garlinge Road, Brondesbury, N.W.

DENTAL.

TOOTH forceps, second-hand, 12 complete set, by Maw, in leather wallet; also local anæsthetic, 2-oz. bottles, 2*s*. 6*d*. each. "PHARMACIST," 1 Park Road, Nottingham.

DENTAL chair, opal letters, sign tablets and boards, brass plates, all relating to teeth; 2 large showcases; also 24 pairs of forceps; to be sold cheap. MACDONALD, 176 Upper Richmond Road, Putney.

FORMULÆ.

BOOT polishes; all kinds formulæ for sale. FRANCE, 42 Vartry Road, London.

MANGE lotion, dog or cat; harmless; effective; 1*s*. 6*d*. "CHEMICUS," 55 Fore Street, Redruth.

EMBROCATION; 10*d*. per gal.; thick, creamy, and unseparable; send 2*s*. 6*d*. for formula. EVERITT, 131 Forest Road, Loughton, Essex.

RELIABLE formulæ for sale; toilet, trade, agricultural, etc.; state wants; list free; acme of perfection. "PHARMACIST," 1 Park Road, Nottingham.

SHAMPOO-POWDERS; why not make your own? nothing so easy; something much better and unique; cost under 3*d*. doz.; formula and how to get free envelopes, P.O., 1*s*. 6*d*. LLOYD, 18 King Street, Margate. Money returned "If" dissatisfied.

PROPRIETARY ARTICLES.

WHAT offers for 2 doz. 10½*d*., 1½ doz. 1*s*. 6*d*., 1½ doz. 2*s*. 6*d*. of Chemists' emulsion. WILSON, Chemist, Egremont.

OZONIA.—10 doz.; sell at 50*s*., carriage paid on whole; small quantities, carriage forward for cash. FITZGIBBON, Medical Hall, Newcastle West, Ireland.

TWO 2*s*. 6*d*. Barff's boroglyceride, seven 1*s*. 1½*d*. Benson's plasters, two 4*s*. 6*d*. Savar's cubeb copaiba capsules, two 3*s*. 6*d*., one 10*s*. 6*d*., Euchrisma; best offer. STEA , 411 Edgware Road, W.

SHARES.

SHARES for Sale. See p. 66.

SHOP FITTINGS.

THREE 6-gall. show carboys; perfect; what offers? 10 St. Andrews Terrace, Ramsgate.

MISCELLANEOUS.

ROLL-TOP desk in oak; excellent condition. "HYSLOP," 159 East India Road, Poplar.

WATER bed, galvanic batteries, Kodak cameras; cheap, or exchange. GWYNNE, Chemist, Liscard, Cheshire.

WHAT offers the 45 materia medica specimens for recognition, nearly new, mounted, 18 by 22? STYLES, Roman Road, Bow.

RARE living plants, Sauromatum (Monarch of the East), 9*d*. and 1*s*. 3*d*.; Laelie Majalis (orchid), 1*s*. 3*d*. and 2*s*., post free; beautiful blossoms; will grow on mantelpiece without soil. ROBINSON, 4 Southgrove, Ventnor.

PLASTER model of old lady for advertising cough-mixture; surprisingly realistic; height over 2 ft., width about 1½ ft., weight from 40 to 50 lb.; creates quite a sensation; offers wanted. 14 Crown Road, St. Margarets-on-Thames.

TWO water-beds, 72 in. by 36 in. and 48 in. by 36 in., both in splendid condition, largest only used three weeks; also 3-ft. mahogany and bent-glass counter-case, mirror back, slope and shelf over; first reasonable offer accepted. CARTWRIGHT, Chemist, Dover.

WANTED.

48 SHOP-ROUNDS, pints; cheap. "DOCTOR," 159 East India Road, Poplar.

PATENTS.—Clean, quick sellers; good prices given. KING, 6 St. Paul's Road, Blackpool.

"CHEMIST and Druggist Directory"; any year, if cheap. QUENZER, 19 Central Avenue, Southend, Essex.

4 OR 5 grain pill-machine, good condition; suppository-mould. Price to "M.," Stonelaw Pharmacy, Rutherglen, N.B.

BRISTOW'S Cream Lilies soap, B. Bulbs, Oatine, etc.; cash or exchange surplus patents. 166/1, Office of this Paper.

PESSARY-MOULDS, Rendell shape; in good condition. State lowest price, CLUNIE, 119 Upper Brook Street, Manchester.

MINOR, Major, Chemists' books.—Send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

CACHET-CLOSING machine in exchange for suppository mould for 12 15-grain; electroplated; as new. MITCHELL, Chemist, Boston.

GARDNER'S sifter and mixer, 60 lbs. capacity, power size, with pulleys; also tincture press wanted. COLLINS, Crown Works, Bury.

SHOP-ROUNDS, ointment-jars, and 5-grain pill-machine; good condition. State particulars, lowest price, "CHEMIST," 221 West Derby Road, Liverpool.

Personalities.

Councillor C. E. Fox (W. Fox & Sons, chemists, Bethnal Green Road) has been appointed a J.P. for the County of London.

Mr. F. W. Davies, chemist and druggist and acting manager of Messrs. Maynard & Co., Ltd., Singapore, has recently been appointed manager.

Mr. P. F. Rowsell, chemist and druggist, Exeter, was on February 1 nominated Chairman of the Exeter Chamber of Commerce for the ensuing year.

Alderman D. T. Evans, chemist and druggist, 1 High Street, Margate, to commemorate his year of office, has added a link to the Margate mayoral chain.

Councillor Wm. Briggs, for many years in business as a chemist in Cheapside, Lancaster, has been elected captain of the Lancaster Golf Club for the ensuing year.

Mr. J. W. Downie, chemist and druggist, who for the past eight months has been in charge of "The Pharmacy," Singapore, during the absence of Mr. G. W. Crawford on leave, left for home by P. & O. mail steamer on January 1.

Mr. D. H. Oxen (Oxens Ltd., Newcastle, Staffs) was at the Staffordshire Knot Chapter No. 418 of Royal Arch Masons, held at Hanley on January 26, installed as M.E.Z. Mr. Oxen is a P.M. of the Sutherland Lodge of Unity, 469, also Secretary of the lodge and A.P.P.J.G.D. of Staffordshire.

Mr. Lewis Orch, Ph.C., F.C.S., presided at the dinner of the South Midlands, Devon, and Cornwall Association, at the Grand Hotel, Leicester, on January 29. The visitors present in addition the Mayor of Leicester (Alderman Lakin, M.D.), Dr. Clifton, J.P., and Mr. Burford, President of the Leicester Chemists' Association.

Mr. John Churchill Crane, son of the late "John Oliver Hobbs" and grandson of Mr. John Morgan Richards, is to play for Eton College in fives and racquets. He is one of the "Fives Keepers." In a recent racquets-match between Winchester and Eton (the latter represented by Crane and another) Eton won by four games to none.

Mr. Harry W. Cox, the well-known manufacturer of x-rays apparatus, of Gray's Inn Road, has been operated upon at his home at Clapton for x-ray dermatitis, and he has lost the larger portion of his right hand, including three fingers. Some years ago Mr. Cox lost one of the fingers of his left hand, and he has yet to undergo another operation. Mr. Cox's first injuries were sustained while testing apparatus to be sent out for use by surgeons during the Boer war.

Mr. David Howard, F.I.C., F.C.S., at a meeting at Stratford, addressed by Mr. Haldane, asked the War Minister what percentage of the eligible manhood of the country would be required to complete the full number of the Territorial Force, was informed that about 2 per cent. between the ages of eighteen and twenty-five would be sufficient. Mr. Howard replied: "Then all I can say is, that if an employer won't let 2 per cent. of his men go to the trainings, I should like to tell him what I thought of him."

Poisonings.

Eleven deaths from poisoning have occurred during the last eight days, of which two were by misadventure. Four fatalities were caused by poisons in Part I. of the Schedule, while Part II. poisons caused death in four other cases, and in three instances unscheduled poisons were responsible. A general dealer, named Spooner, committed suicide at Naas by drinking a solution of corrosive sublimate. She kept the poison on sale in the shop for use as sheep-dip.—Edward Pye (65), park-keeper, St. Helens, took a quantity of corrosive sublimate in mistake for a dose of Gregory's powder. The mercury salt was evidently mixed, and appeared to be similar in colour to the laxative powder. Both were kept in the same locked cupboard. At the inquest it was stated that deceased used the poison for killing worms and grubs, his last order being for 50 lb. in 2-oz. packets, which were labelled "Poison." "Misadventure" was the verdict returned.—At the inquiry into the death of Ellen Coombs (5), Walthamstow, the jury gave a verdict that death was due to strychnine-poisoning, but that there was no evidence to show how the infant had obtained the substance.—The usual verdict was returned on Marie Rowe (27), Carlisle, who took a quantity of strychnine.—The same verdict was passed on James Smith, of Lambeth, who used oxalic acid as the lethal agent.—Georgina S. Grimes, of Croydon, ended her life by taking carbolic acid.—Annie Robbins (82), of Malmesbury Park, Bournemouth, who was practically bed-ridden with rheumatism, committed suicide owing to dread of the workhouse. Death was due to carbolic-acid poisoning and also to poisoning by an acetic acid and turpentine embrocation. Mr. C. J. Reid, chemist and druggist, 276 Old Christchurch Road, Bournemouth, deposed at the inquest that the carbolic acid must have been obtained over six years ago.—Grace Mildred Topham (23), of Hull, was found dead in bed from carbolic-acid poisoning. Deceased, who was employed by Mr. B. M. Stookes, Ph.C., 16 Whitefriargate, Hull, had recently had a "tiff" with her sweetheart, but she left a note saying he was not to blame for her suicidal act, and also stating that she took the acid from her employer's shop.—Fanny Smith (39) committed suicide at Brighton by taking spirit of salt which she obtained from a general dealer.—The same lethal agent was taken by Selina Aylott (56), the wife of a Bow builder, on account of money worries.—Margaret Ward (26) died at Rochdale in consequence of drinking a quantity of ammonia with suicidal intent.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Monday, February 8.

Manchester Pharmaceutical Association, Grand Hotel, Aytoun Street, at 7.15 P.M. Whist-drive. Tickets (gentlemen 3*s*., ladies 2*s*. 6*d*.) from Mr. Jas. Grier, Hon. Secretary, the University.

Tuesday, February 9.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 8 P.M. Evening meeting. Mr. W. A. H. Naylor on "The Determination of Glycerin"; Mr. H. Finnemore on "A False Bark offered as *Prunus Serotina*"; and Mr. E. M. Holmes on "The Identification of a False Bark of *Prunus Serotina*."

Oldham Pharmaceutical Association, Oriental Restaurant, at 7.30 P.M. Monthly meeting.

Wednesday, February 10.

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 9.15 P.M. Ordinary meeting arranged by Mr. W. B. Cowie.

Leeds Chemists' Association, Church Institute, at 8 P.M. Mr. F. W. Branson on "Radio-active Elements."

Newcastle-on-Tyne Chemists' Association, Hôtel Métropole, Clayton Street West, at 8 P.M. Ordinary meeting.

Plymouth, Devonport, and Stonehouse Chemists' Association, Palm Court, Royal Hotel, Plymouth. Whist-drive. Tickets (3*s*. each) from Mr. F. Maitland, Hon. Secretary, 31 Chapel Street, Stonehouse.

Thursday, February 11.

Bath Pharmaceutical Association, Literary Institute, at 8.15 P.M. Dr. Waterhouse on "Bacteriology."

Chemists' Assistants' Association, International Hall, Café Monico, London, W. Cinderella dance. Tickets (3*s*. each) from Mr. B. R. Wilkinson, 18 Poynder's Road, Clapham Park, London, S.W.

Halifax Chemists' Association, Old Cock Hotel, at 6 P.M. Annual dinner. Tickets from Mr. R. V. Sutcliffe, Hon. Secretary, 64 King's Cross.

Manchester and North of England Optical Society, Albion Hotel, Piccadilly, Manchester, at 7.30 P.M. Mr. Lionel Laurance on "Mixed Astigmatism."

North Staffordshire Chemists' Association, Roebuck Hotel, Stoke, at 7 P.M. Mr. E. Corner, F.S.M.C., on "Astigmatism: Its Nature and Correction Simply Described."

Stockport Chemists' Association, County Restaurant. Annual dinner, at which Mr. J. R. Young (President of the Pharmaceutical Society) will be present. Tickets (4*s*. each) from Mr. A. D. Watson, Hon. Secretary, 184 Higher Hillgate.

West Ham Chemists' Association, Earlham Hall, Forest Gate, London, E., at 7 P.M. Business meeting, followed at 8 P.M. by a smoking-concert.

Friday, February 12.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 P.M. Professor H. A. Wilson on "The Electrical Properties of Flame."

Printed for the Proprietors by Spottiswoode & Co. Ltd., New-street Square; and Published by the Proprietors at 42 Cannon Street, in the City of London—*February* 6, 1909.

Chemists and Druggists' Society of Ireland.

A MEETING of the committee of this Society was held in the offices, Waring Street, Belfast, on January 27, the President, Mr. Samuel Gibson, J.P., occupying the chair. There were also present Messrs. S. Suffern, W. J. Busby, J. D. Carse, Jacob Walsh, Wm. Haslett, John Fraekleton, W. H. R. Orr, S. E. Kee, W. J. Gibson (Hon. Treasurer), and W. J. Rankin (Hon. Secretary).

Poisons and Pharmacy Act.

The President made a long statement with reference to the proceedings at the last meeting of the Pharmaceutical Council of Ireland (*C. & D.*, January 16, p. 90). The Chemists and Druggists' Society would have, Mr. Gibson said, to consider what steps should be taken as to fresh legislation. The drug-companies are already taking steps to put their house in order to meet the future, and druggists, as the other section of the trade, should see about doing the same. Before, however, this was undertaken, it was well to look back upon what had happened recently. A great many of the statements made at the last meeting of the Pharmaceutical Society of Ireland were not correct, and were calculated to lead the public and those members who are not so intimately connected with the inner working of the Society to take a wrong view of the subject. It would be well to reply to those statements.

THE COMPANIES CLAUSE.

In the first place, it was stated that it was on account of his (Mr. Gibson's) interference that the companies clause did not go through. As to that, Mr. Suffern would bear out what happened. He (the speaker) had an interview with Mr. Samuel, who was in charge of the Bill. Mr. Wells had asked him (Mr. Gibson) if he intended to bring before Mr. Samuel the companies question, and he undertook not to say anything on behalf of the companies. His view was that he was sent as President of the Chemists and Druggists' Society, and it was his business to represent the individual druggists, and them alone, before Mr. Samuel. That gentleman asked him his opinion on the companies clauses, and he refused to answer the question. The result was that Mr. Samuel wired to Belfast for representatives to come over to give him their views on the question. Mr. Wells brought this trouble on himself, and did so after being warned. He (Mr. Gibson) told Mr. Wells before he left him, at a conference with Mr. Glyn-Jones, that if the negotiations fell through they were not to blame him (the speaker). It was Mr. Wells who was responsible, because he took up a position from which he would not move one inch. In spite of what he told him, Mr. Wells now tries to throw the blame of the failure of the company settlement on him. The secret of the companies clause not passing was that in the letter which Mr. Smith and Mr. Wells sent to the various companies at the request of Mr. Samuel two great mistakes were made. In the first place, the letter, whether intentionally or not, was altogether misleading. It stated that it "would place the companies upon exactly the same position as individual pharmaceutical chemists." That was an incorrect statement. In the second place, the circular was only sent to a few of the companies in Ireland and not to all.

When he (Mr. Gibson) read Mr. Wells's speech in the *C. & D.* (p. 91), he was angry at first, but when he read it again he was amused. Having quoted the extracts referring to Mr. Field and Mr. Russell, Mr. Gibson said that Mr. Wells seemed to have forgotten that the matter had been before Parliament for a considerable time. A Departmental Committee had reported that in England, Scotland, and Wales there was a considerable lack of sellers of sheep-dips and other poisons, so that he did not think the Irish trader or farmer referred to in the speech had very much to do with the Bill. It was the Government of the country that considered some legislation necessary. Another statement of Mr. Wells was that when this Bill passed the grocer could sell arsenic like bread and butter. That is altogether contrary to the facts of the case. All the restrictions that at present surrounded the sale of arsenic would continue, and it is only when there is a necessity for it that traders will have licences. Those who receive licences will have to keep the arsenic in a special place. He did not really know what was passing through Mr. Wells's mind when he said it would be some time before there is legislation, and when there is legislation it will be necessary to bring the Irish pharmacy laws into line with Germany and France. Was it not more natural, said Mr. Gibson, to think that the next legislative procedure would be to bring their law into conformity with the law of Great Britain? He was very sorry to see the attitude that one of the druggists' representatives on the Council took up regarding the question. They expected determined opposition from Mr. Wells, but when one of their supposed friends went over to the opposition it was a matter for extreme regret. Mr. Gibson, having read extracts from Mr. Wm. Doig's speech at the Council-meeting, expressed the hope that Mr. Doig was a false prophet when he said it would be a long time before the Government proposed fresh legislation for Ireland. The Chemists and Druggists' Society wanted, in the first place, druggists put in a satisfactory position in regard to the filling of medical prescriptions. It is admitted on all hands that the law at present is unsatisfactory, and that it was never intended that druggists should not be allowed to sell simple drugs like vaseline or zinc ointment when they are ordered by a medical man. That matter is one that the Society will have to consider very carefully when the time comes for formulating their demands. Another point was in regard to the two years' apprenticeship. When the Pharmacy Amendment Act was passed, druggists had a life-and-death struggle, and every part of that measure did not receive the due consideration it should have received. It had been found that the clause regarding apprenticeship had not worked at all either to the benefit of the young men or the advantage of the public. It was found that when a young man had served his apprenticeship to the druggist it was impossible for him to find a place with a pharmaceutical chemist at anything like fair remuneration, and just at the time when he became of some use to the druggist who had trained him he had to go away and leave him. He (Mr. Gibson) thought that druggists are quite reasonable in their demand in asking that the two years should be done away with. (Applause.)

Mr. Suffern agreed with Mr. Gibson's account of what happened in London with reference to the companies clause.

Mr. Busby said that the Chairman and himself knew the source from which opposition to the companies clause came.

Mr. Haslett was of opinion that some action should be taken to correct the statements made at the Pharmaceutical Council meeting.

The Chairman said Mr. Doig did not represent the views of the Chemists and Druggists' Society at the Council-meeting of the Pharmaceutical Society.

Mr. W. J. Rankin: He is not returned by us.

Mr. Suffern: But he is a druggist, and he ought to make it plain that he did not represent the Chemists and Druggists' Society.

Mr. Haslett said Mr. Doig had every right to give his own opinions, but they are not those of the Society. He moved—

> That the statement made by Mr. Wm. Doig at a recent meeting of the Council of the Pharmaceutical Society of Ireland does not represent the opinion of the great body of the chemists and druggists in Ireland, as Mr. Doig has not consulted our Society as to what our demands are and is not nominated to the Council by the members of the Chemists and Druggists' Society of Ireland; and that copies of this resolution be forwarded to the Pharmaceutical Council and the trade journals.

Mr. Suffern seconded the resolution, which was supported by Mr. Busby, who read extracts from the *C. & D.*

Mr. Rankin thought the matter was not worth a resolution, and pointed out that Mr. Doig was elected by the Society in Dublin.

Mr. Carse: How many of the trade know that?

After further discussion, in which Mr. Walsh and Mr. Kee took part, the resolution was passed.

Future Legislation.

A prolonged discussion ensued as to the demands of the Chemists and Druggists' Society mentioned by the Chairman, who repeated the various points on which legislation

is necessary. He instanced the case of a druggist setting up in a small town which improved so much that a pharmaceutical chemist was wanted, but no one would venture to oppose the druggist who had secured the trade of the place. The result is that the people are deprived of any place where they can get their prescriptions filled; although the druggist may have facilities for the work and is prepared to study for the examination. This he cannot do, according to the by-laws.

Mr. Rankin also spoke in favour of these proposals.

Mr. Haslett stated that many of the druggists do not want to be unreasonable. As far as the filling of prescriptions is concerned, if the Pharmaceutical Society were to have an examination for those druggists who wished to become pharmaceutical chemists, and would give them an opportunity of becoming pharmaceutical chemists without having to serve their time, that would remove the grievance. He held with Mr. Walsh that druggists have no right to fill prescriptions. Many men would not be qualified to do so, but many others would have the necessary qualification. If the Pharmaceutical Society will meet the chemists and druggists in a fair way, the latter would be prepared to admit they should pass an examination. The Pharmaceutical Society has found it has made a mistake in the past, but if the two years' requirement was abolished the grievance would be largely removed. That is the opinion of a great many druggists in the North of Ireland. They did not want to get in by any back door. The pharmaceutical people would be very glad to have the thing settled once and for all. He thought the Pharmaceutical Society would be prepared possibly to do away with the two years and let those in the trade go in for an examination.

Several of the members expressed the opinion that at present prescriptions are filled by unqualified men in many pharmacies.

Mr. Busby spoke in favour of having not less than seven druggists on the Council of the Pharmaceutical Society, and of having the term "prescription" defined.

The Chairman said that their demands would be incorporated in resolutions and submitted to the annual meeting next month.

Society of Chemical Industry.

LONDON SECTION.

A MEETING was held at Burlington House, Piccadilly, London, W., on February 1, Dr. J. Lewkowitsch in the chair. There was a good attendance, the lecture-room being quite full. The minutes of the previous meeting having been read, the Chairman reminded the members that the annual meeting of the Society is to take place in May—earlier than formerly—and that five members of the Council would retire. Nominations for the five vacancies must be sent to the Hon. Secretary before February 15. Colonel Sir Frederick Nathan was then called on to read his paper on

Guncotton and its Manufacture.

This is one of the series of technological papers which are being given before the various Sections of the Society. Guncotton, said the lecturer, was discovered by Schönbein in 1845, and he sent a sample to Faraday in 1846, subsequently arriving himself in London to witness successful tests with his product which were carried out at Woolwich. The manufacture of guncotton was then taken up by Messrs. John Hall & Son, Faversham, whose factory was entirely destroyed by an explosion in 1847. In Austria Von Lenk made improvements in the process, chiefly in regard to the purification of the cotton yarn which was the base of the guncotton. A factory was built at Hirtenberg in 1853, but owing to a disastrous explosion these works were abandoned in 1865. In this country Sir Frederick Abel, at the invitation of the Minister for War, took up the manufacture of guncotton in 1863. Sir Frederick adopted Von Lenk's method, but soon made important improvements on the process. He introduced the use of cotton waste, and by converting the guncotton into a pulp reduced the washing-process to a few days in place of the weeks which were required by the older process. The Abel method was employed at Waltham Abbey for many years, and although it has been replaced by the displacement-system, the process is still in use by private firms. In 1876 250 tons of guncotton was produced at Waltham Abbey, but in the new factory, built in 1890 and altered in 1894, 2,000 tons per annum is now being produced by the displacement-process. Abel introduced the method of compressing the finished pulp by hydraulic power, so that the guncotton could be detonated in an unconfined state. It was afterwards discovered that moist guncotton could be detonated by fulminate of mercury, which is inserted in the blocks or cylinders in a hole bored for that purpose. Sir Frederick Nathan then went on to describe the raw materials of the manufacture, giving the advantages and disadvantages of the various forms of cotton that can be used. The best form is weaving-room waste, but this cannot be obtained in large quantities. The next best material is cotton waste, this being employed at Waltham Abbey. Many other fibres have been experimented with. Next referring to the nitric and sulphuric acids employed for nitrating the cotton, the lecturer said that Nordhausen sulphuric acid, being now readily procurable, has facilitated the process. The acids are mixed and then analysed, after which the proportions are adjusted. Slides were then exhibited showing the preparation of the cotton waste. It is passed through a teasing-machine, then dried and weighed out into charges.

The nitration-process was next discussed, the subject being considered under the following heads: (1) The Abel process; (2) direct-dipping process; (3) centrifugal method; (4) displacement-process. The last-named is that employed at Waltham Abbey, but the others are used by private firms. A long description was given of the displacement-process, in which earthenware tanks are employed. After the cotton—650 lb. each charge—has been immersed in the mixed acids, a film of water is run on the top, effectually preventing the escape of fumes. After 2½ hours the acids are run off from below, and water is admitted from above at the same rate. The advantages claimed for this method are that there is less labour required, less danger to the workman, and an improved yield of a more stable and uniform product. A series of slides of various factories was then shown, to illustrate the method of nitration referred to above. After nitration the guncotton is subjected to processes of purifying and stabilising, which, the lecturer said, are the most important in the manufacture of this explosive. The purpose of these is to get rid of all traces of acid. A boiling-process, occupying altogether fifty hours in eight stages, is employed at Waltham Abbey. The very hard water at the Government factory may be a reason why this process is shorter than usual, but washing can be carried too far. After this the guncotton is reduced to a pulp in a beating-machine such as papermakers employ, and this pulp is run through brick traps lined with blankets to separate mineral impurities, an electro-magnet being fixed at one part to remove iron particles. Then follows "poaching"—another washing-process—and finally the pulp, after being blended, is run into moulds and compressed into cylinders or blocks by an hydraulic machine.

An interesting discussion followed, in which the Chairman, Mr. John Spiller, Mr. Walter Reid, Mr. Oscar Guttmann, and Sir Hilaro Barlow took part. Mr. Spiller was Sir Frederick Abel's assistant in the early years when that scientist was working out improvements in the manufacture of guncotton. Some of the speakers referred to the use of substitutes for cotton, and in speaking about kapok fibre Mr. Reid mentioned the very interesting fact that this fibre was employed at his suggestion for lining the cars of the English balloons that took part in the last Gordon-Bennett race. The fibre is of such a greasy nature that it acts as one of the best water-repellants known, and if the balloons had fallen into the sea the cars would have remained dry for a long time. Balloonists now wear life-belts of kapok fibre with a similar purpose in view. Mr. Guttmann raised a few controversial points, but everyone spoke in appreciation of the paper.

Is There a Power within the organism which, consciously or subconsciously, promotes the healing of any ailment from which a subject suffers—in other words, a healing power? Mrs. St. Clair Stobart endeavours to answer the question in the "Fortnightly Review" for February.

Observations and Reflections.

By "Xrayser."

Historic Records

of the drug-trade are of considerable interest, and the Winter Issue was particularly rich in these. The key-note was struck in the very first line of the literary section, where we read that the Jubilee of the *C. & D.* itself is due this year, an announcement which suggests the almost inconceivable picture of the drug-trade without the *C. & D.* But there was a drug-trade even in the dark days before 1859, as the pages surrounding the paragraph alluded to abundantly prove. I find, after a careful scrutiny of the advertisements in the Winter Issue, that as many as sixty of the firms advertising last week were direct descendants of drug-trade firms flourishing when this journal was founded, and many of them no chickens even then. At that date half a dozen, at least, could call themselves centenarians. The very earliest date of establishment of one of these businesses which I have observed among the announcements is 1654, when George Atkinson & Co. claim to have started the manufacture of chemicals. That was more than a quarter of a thousand years ago, and Oliver Cromwell was ruling England at the time. The two London drug-houses of Burgoyne, Burbidges & Co., and Willows, Francis, Butler & Thompson, of whose histories we got some graphic details last week, came into existence almost a century later, but both of these had more than a century to their credit when the *C. & D.* began its career.

The Two German Histories—

namely, those of the "Gegenüber" Farina, of Cologne, and of Merck, of Darmstadt—which were included in the Winter Issue records, are so remarkable as to compel attention. The two-hundredth anniversary of the foundation of the famous Farina firm will interest all the world, for perhaps there is no other proprietary article in any line with such a wide circle of customers. The two hundred and forty years of direct business association with pharmacy traced by the house of Merck, of Darmstadt—one business "in unbroken possession" of one family throughout the whole of that period—is surely unique not only in pharmacy, but in all commerce. In this country a trading family gets into the Bankruptcy Court or into the House of Lords after three or four generations, or at least disposes of its interests to a joint-stock company. The Merck development illustrated in the series of beautifully produced pictures in their book is a triumph of patient and persistent devotion to a business which demands exceptional skill and study; but the prospect of a magnificent success eight or ten generations hence is not the sort of thing the pharmaceutical youth of this century is looking after

Mr. Maskew's Flight

through the history of pharmaceutical literature, as he himself describes his brightly written notes on "Old Books Worth Knowing," is the representative in this Winter Issue of the ancient lore some specimens of which we have come to look for among the varied contents of these mammoth numbers. Mr. Maskew does not recommend his study from the *l. s. d.* point of view, nor would I. A hobby which leads one to expend 5*l.* 15*s.* on "The Secretes of the Reverend Maister Alexis" needs to be carefully watched. Still, it is a pleasure to browse for a time in the fields of the old mystics and quacks to whom we owe our business, if only to get clear for a while of the squabbles about dignities and titles which have replaced those concerning the respective merits of herbs and chemicals. "To study these relics of bygone centuries is to love them," Mr. Maskew avers. My own experience of the pursuit is far too limited to have brought me to that stage; but one consideration has been suggested by those of the "relics" which have come my way, which is the frequently amazing distinction between the pharmaceutical (and medical) intelligence of a period, as illustrated by its literary remains, and the lay or general standard of thought, estimated by a similar criterion. For example,

In the Fourteenth Century

Bernard Gordon wrote a "Lillium Medicinæ," and John of Gaddesden followed this with a "Rosa Anglicana." Both were medical treatises whose popularity continued for centuries. They were filled with the most absurd conceits and ridiculous formulas—wine of fennel and parsley to cure blindness, and such like. In the same century Chaucer wrote, and his poems were just as popular as Gordon's "Lily" and Gaddesden's "Rose." And yet there are many passages in Chaucer—the description of the "Doctour of Phisike" may be cited particularly—in which the therapeutics of the time are dealt with as sarcastically as they would be by a modern author. Luther and Paracelsus were contemporaries, and both were men of genius and iconoclasts; but one wrote literature which is forcible to-day, and the other mixed up sense and rhapsody in such confusion that no modern reader could extract from it any clear perception of any system of philosophy at all. The controversy between Galenists and Paracelsists lasted well up to Shakespeare's day, and was regarded as of immense importance by the doctors. The poet alludes to the dispute more than once evidently in a tone of mockery. One of the references, by the way, is to "the most sovereign prescription in Galen," and occurs in "Coriolanus," the period represented being at least 700 years before that famous physician could have written a prescription at all. In Shakespeare's time, again, potable gold was as familiar as the designation of an unauthorised remedy as, say, bile beans are with us, and this, too, is alluded to in the plays, but with an evident lack of reverence. The point of this paragraph is that in the three centuries selected—and all the others might be added—there were apparently two levels of intellect, perhaps in the same persons—one which accepted the puerile fancies which doctors passed off as science, and the other which appreciated the criticism, scepticism, and sarcasm of the great authors contemporary with them: intelligences which would have seemed to be incompatible.

Mr. Philip Snowden, M.P.,

is one of the few members of Parliament who took any active interest in the affairs of chemists and druggists when the Poisons and Pharmacy Bill came before the House of Commons. For that we may well be grateful. But Mr. Gifford is a little too lavish with his colours when he paints his hero. Accepting Mr. Gifford's appreciation of Mr. Snowden's Parliamentary reputation, of the keen interest and judgment with which he had studied the pharmaceutical position, and of his power to kill the Bill by holding up his little finger, it is inexplicable why, realising as he did the importance of protecting the word "pharmacy" as well as that of "pharmacist," and with the Minister in charge sympathising with his aim, he did not get the necessary dozen words inserted which would have removed all risk of doubt on the subject. What could Mr. Samuel have said if this small addition had been suggested? He agreed with its intention and he wanted to get his Bill passed. He would have accepted the amendment promptly. Was Mr. Snowden himself responsible for the neglect of the opportunity, or shall we debit it to the very well satisfied deputation who interviewed him?

"SANITAS"
DISINFECTANTS
OF
ALL CO-EFFICIENCIES
OF
ALL KINDS
AND FOR
ALL PURPOSES
THE "SANITAS" Co. LTD
LIME HOUSE
LONDON, E.

WARRICK
BROTHERS.

H·E·MORGAN'S TALKS
ABOUT ADVERTISING

3. MORE ABOUT THE NAME.

Make the name easy to pronounce. Do you like to go into a shop and ask for some article that you cannot be sure of pronouncing right? Remember that the Englishman hates to appear ridiculous by making a mistake over a name.

Make the name easy to remember too: people will not trouble their memories with a long string of meaningless syllables; they will just ask for something simpler—not such a good thing as yours, perhaps, but simpler to remember.

From the very first—from the moment you give it a name—make it easier for people to buy your article than some one else's.

W·H·SMITH & SON'S
ADVERTISING AGENCY
H. E. MORGAN, CONTROLLER
—will help you as much or as little as you wish—
—place your advertisements only, or manage your campaign—
—return all commissions and charge for work done—
HELP IN MARKETING—The Name—The Trademark—The Package—The Display—The Sales Plan.
HELP IN ADVERTISING—The Scheme—The Copy—The Designs—The Typesetting—The Media.
95 FETTER LANE, LONDON, E.C
Send now for "THE MISSING LINK," which tells you all about our Advertising Agency and its methods.

GRIMBLE'S
PURE
VINEGAR.
Brewery: LONDON, N.W.

WILCOX, JOZEAU & CO.,
49 Haymarket, London, S.W.
Importers and Exporters of
FRENCH and all FOREIGN
PROPRIETARY MEDICINES
Price List on application. Special Export Terms.
Foreign Prescriptions Dispensed for Pharmacists.

S.V.M. METHYLATED SPIRIT
Also RECTIFIED SPIRIT.
58 O.P. S.V.R. 60 O.P.
Jas. Burrough Ltd. Cale Distillery, Hutton Road, LAMBETH S.E.

FLETCHERS' HYDROBROMATES.
The titles "Syr. Hydrobrom." and "Syr. Hydrobrom. c. Strychnia" were originated by us in the year 1879 and can only be legitimately applied to FLETCHERS' HYDROBROMATES. Legal proceedings will be instituted against any firm or person dispensing or offering for sale fraudulent imitations of FLETCHERS' SYRUPS.
SOLE PROPRIETORS:
FLETCHER, FLETCHER & CO., Ld., LONDON, N.

Editorial Comments.

The New Act.

VI.—Examination and Registration.

Section 4 of the Poisons and Pharmacy Act enables the Pharmaceutical Society of Great Britain (1) to require evidence of apprenticeship from persons entering for the qualifying examination, (2) to institute a compulsory curriculum, (3) to divide the examination into two parts, (4) to establish pharmaceutical reciprocity with the Colonies, and (5) to register (if the Council so decide) qualified military dispensers and apothecaries' assistants.

This is a free paraphrase of the section, the rubric of which is "Extension of powers of the Pharmaceutical Society to make by-laws." It is the end of an old story—an agitation which has been before the Pharmaceutical Council since 1880, when the late Mr. G. F. Schacht introduced it, and a committee of the Council reported a year later, commending a three years' apprenticeship after passing the Preliminary examination, a compulsory curriculum, and division of the Minor examination into two parts. These proposals were

somewhat elaborated two years later, and the necessary powers sought for in a draft Bill, which the Privy Council did not accept. The Pharmaceutical Council then did a bold thing in attempting to enforce these proposals by by-laws. There was much opposition to the curriculum within the Council and outside it, and when the by-laws came before a meeting of the Society in July 1885, the late Mr. G. W. Sandford emerged from his retirement to lead an opposition which was beaten at the meeting, but whose contentions were later upheld by the Privy Council, which refused to sanction the by-laws for certain reasons, among them that

> By-laws which impose any precedent conditions upon persons who tender themselves for examination under the provisions of the Pharmacy Act, 1868, are contrary to Section 6 of that Act.

In 1887 an Amendment Bill was drafted "to further secure that persons known as chemists and druggists should possess a competent practical knowledge of their business," and this was to be done as already indicated. It was opposed, and did not pass. In a Bill of 1901 provision for instituting reciprocity with pharmaceutical authorities "in the United Kingdom or in any Colony or Possession" was added to the curriculum provision, and the proposal in this form was, with modifications, continued until the past Session of Parliament, when the Government Bill (as on a previous occasion) contained the Pharmaceutical Council's clause. During the debate in Parliament, the Government, at the request of the War Office, incorporated certificates of qualified military dispensers in the provision, and the Association of Apothecaries' Assistants, at the last moment, got similar mention. It should be noted that Ireland is not mentioned in the section, and it is understood that the Irish Society has no wish to accept the qualification of Great Britain for registration without examination in Ireland. It may also be stated that scholastic opposition, which made itself felt at Whitehall for many years, was entirely absent this year, assurance having been given that the Pharmaceutical Council is prepared to recognise any properly equipped school of pharmacy. Moreover, the Minor examination has during the past fifteen years become so much stiffer than it was before that few persons, if any, attempt to enter for it without collegiate training, and this has paved the way to quiet acquiescence in the statutory provision for the curriculum. Even the Privy Council has forgotten the warnings of the late Dr. Greenhow, formerly its representative at the Bloomsbury examinations, who insisted over and over again that the 1868 Act qualification was never intended to be one so high as to require a collegiate course. He believed that the compulsory curriculum would ultimately deprive the public of certified but unpretentious druggists—in other words, safe sellers of poisons. We share that opinion, and look forward to a time when another grade of druggists will have to be created by Parliament to do what "pharmacists" by their collegiate training will become unfitted for or "superior" to. For the present, however, our purpose is to indicate what the immediate objects of Section 4 are.

The provisions follow generally the original proposals, which we summarise thus :

1. Requirement of a certificate of three years' apprenticeship.
2. A period of three years between passing the Preliminary examination and entering for the Minor.
3. Courses of lectures and practical instruction in botany, chemistry and physics, and materia medica.
4. The Minor examination to be divided into two parts, with an interval of at least six months between them. The first part to be a written examination in botany, theoretical chemistry, pharmacy, and prescriptions. The second part to be an oral and practical examination in botany, chemistry, dispensing, and materia medica.

There can be little doubt that the by-laws to be framed under the section will follow these lines, as, with a few modifications of details, they embody principles which have been adhered to during a quarter-of-a-century's curriculum propaganda. Also following precedent, when the by-laws are formulated, passed by the Pharmaceutical Council and a general meeting of the members of the Society, and approved by the Privy Council, the rights of apprentices in pharmacy at the time may be expected to be conserved, and a period of three years allowed before the new conditions are enforced.

As to reciprocity, we may recall the fact that the Pharmaceutical Council was somewhat indifferent to Colonial demands until Mr. Joseph Chamberlain, as Colonial Secretary, backed them up. Then the Council accepted the inevitable; indeed, made Mr. Chamberlain's request a fresh argument for the curriculum and all that is attached to it, in so far as, said the Council, reciprocity cannot be based upon examination alone, but on practical training, education, and examination. The principle so enunciated has constantly been kept in view, and it should be clearly understood that the conditions which are by by-law to be imposed in the future upon Minor men will be the basis for registration without examination of persons mentioned in Section 4 (*b*), viz. :

> Any persons holding Colonial diplomas or qualified military dispensers or certified assistants to apothecaries under the Apothecaries Act, 1815, who produce evidence satisfactory to the Council of the Society that they are persons of sufficient skill and knowledge to be so registered.

A good deal of speculation exists as to the possibilities of this provision, which there would not be if those concerned sufficiently considered the precedents and practice in such matters. No registering body—legal, medical, or pharmaceutical—which accepts evidence of qualification by other examinations than its own recognises conditions materially different from its own. The Pharmaceutical Society's practice in regard to the Preliminary examination is sufficient evidence of this. Under the new conditions the Council will, we have little doubt, insist that the preliminary education, apprenticeship, collegiate course, and examinations which have been passed by persons who desire to be registered without examination shall be equal or similar to those which are imposed upon persons in Great Britain who go through the Society's requirements. At present there are very few Colonial diplomas which meet this standard. Qualified military dispensers and apothecaries' assistants have neither a Preliminary examination nor a curriculum, while the examinations which they have to pass do not include all the Minor subjects. Hence it is obvious that they cannot be registered as chemists and druggists without examination. We can give no encouragement to suggestions which have been made that the Pharmaceutical Council, pressed by the War Office, cannot afford to ignore length of experience held by Army compounders, because it is agreed by all authorities in matters of this kind, including Government Departments, that there must be a common basis for registration, and all must conform to it, directly or indirectly. The point is really not worth elaboration, and we should not have dealt with it thus fully were it not that an impression exists that the Act presents an opportunity for Army compounders and apothecaries' assistants now in the retail drug-trade to be registered as chemists and druggists without examination. This is a hopeless surmise, and in view of what we have said it will be seen that it is far easier for such persons to pass the Preliminary and Minor examinations before the new conditions come into force than to wait in the vain hope that then they will be able to produce evidence of sufficient skill and knowledge to satisfy the

Pharmaceutical Council that they are as competent as Minor men. Besides, the rights of persons who conform to the Society's qualification requirements have to be considered, and that is a point so unlikely to be forgotten that we need not discuss it.

The professed object of the section is to reduce failures at the qualifying examination. There is a possibility that this may result; indeed, it would be surprising if better-educated and better-trained pharmacists should not under the new conditions be registered. That would be quite in accordance with the objects of the Pharmacy Act, 1852, but it may entirely defeat the purposes of the 1868 Act, and thus render inevitable another Act similar in scope to the Irish Act of 1890. Hence the necessity for the Pharmaceutical Council to "gang warily."

Poisonings in 1907.

IN view of the new poison regulations which will come into force on April 1, the portion of the report of the Registrar-General which deals with the fatalities from poisons and poisonous vapours in England and Wales during 1907 will be received with additional interest this year. The appended table shows the proportion of suicides and accidents, and that the diminished proportion of suicides to accidental poisoning observed in 1906 is maintained in 1907 :

Deaths due to Poisons or Poisonous Vapours.

	1905	1906	1907
Total	1,220	1,114	1,140
Accidents	510	539	545
Suicides	710	575	595

A further investigation of the figures proves that less than half of the deaths are due to scheduled poisons. The following analysis of the data provided shows a steady diminution in the number of scheduled poisons which have caused deaths, while the total of fatalities by unscheduled compounds remains almost constant. The numbers of deaths in 1907 from poisonous vapours and during anæsthesia have increased considerably beyond the totals from these causes in 1905 :

	1905	1906	1907
Scheduled poisons	624	531	482
Part I.	138	91	112
Part II.	486	440	370
Unscheduled substances	210	206	219
Poisonous vapours	120	122	149
By anæsthesia	155	183	186
Kind not stated	97	59	74

As seen above, although there is a remarkable decrease in the number of poisoning-cases from substances the sale of which the chemist controls, compared with 1906, a greater laxity existed in regard to Part I. poisons. However, an inspection of the poisons which are the principal lethal agents and a comparison of them in the different years, as seen in the table below, dispels this idea. The increase in the number of suicides and misadventures (27) with potassium cyanide and prussic acid (the former of which is frequently returned as prussic-acid poisoning) is six more than the corresponding increase in the fatalities (21) caused by Part I. poisons, while the use of potassium cyanide obtained in wholesale quantities for industrial and technical purposes takes its control away from the retail chemist. In contrast, the sale of narcotics, which is more limited, varies but slightly, and the number of deaths from them, as also from other toxic articles retailed under the chemist's supervision—namely, oxalic and carbolic acids—shows a considerable diminution. The poisonings from carbolic acid are under the century mark for the first time since 1891, as a result of the scheduling of the poison in 1900, during which year the total was 170, while in 1896 the fatalities totalled 197.

	1901	1903	1905	1906	1907
Accidents :					
Carbolic acid	33	20	31	10	13
Hydrochloric acid ...	12	10	11	17	17
Oxalic acid	7	7	11	5	8
Suicides :					
Carbolic acid	142	141	157	120	93
Hydrochloric acid ...	50	45	73	86	83
Oxalic acid	72	89	107	90	81
Opium, etc.	118	135	149	149	130
Cyanide (HCN and KCN)	39	44	77	43	63

The figures show the wholesome restraining influence of the Pharmacy Act, 1868. Will the new Schedule of Poisons in the Poisons and Pharmacy Act, 1908, act as a further restriction, or will it be outweighed by the concessions for the sale of sheep-dips and weed-killers? The deaths from these horticultural and agricultural poisons totalled eleven in 1907. The following is a complete list of the poisoning fatalities recorded in the report :

—	Negligence and Accident	Suicide
Acetic acid	1	3
Acid, corrosive	—	2
Aconite	2	—
Alcohol	4	—
Ammonia	16	15
Ammonium sulphate	1	—
Anæsthetic—		
A.C.E. mixture	2	—
Chloroform	95	—
Chloroform and ether	5	—
Ether	10	—
Ethyl chloride...	2	—
Nitrous oxide	3	—
Kind not stated	69	—
Aniseed oil	1	—
Antimony chloride	—	1
Arsenic	6	4
Arsine	1	—
Atropine	1	—
Belladonna	3	3
Boric acid	—	1
Bromide mixture	1	—
Camphorated oil	1	—
Carbolic acid	13	93
Caustic alkali	1	1
Chloral	7	1
Chlorodyne	3	3
Chloroform (not for operation) ...	6	2
Chromic acid	2	—
Coal-tar	—	1
Cocaine	3	1
Copper sulphate	—	1
Diachylon pills	1	—
Disinfectant	1	2
Hydrochloric acid	17	83
Lead	7	1
Liniment	5	3
Medicine, overdose	1	—
Mercury	1	1
Mercury bichloride	3	3
Mercury cyanide	—	1
Mercury iodide	—	1
Metal polish	1	—
Mushrooms	7	—
Narcotic (kind not stated)	4	3
Nicotine	1	3
Nicotine and camphor	—	1
Nitric acid	1	4
Nitro-benzol	—	1
Opium, laudanum, and morphine ...	70	60
Oxalic acid	8	81
Paraffin	2	—
Paraldehyde	4	—
Phosphorus	2	6
Phosphorus matches	6	—
Poisonous berries	1	—
Potassium bichromate	—	4
Potassium chlorate	2	—
Potassium cyanide	3	30
Potassium oxalate	—	1

—	Negligence and Accident	Suicide
Potassium permanganate	1	—
Prussic acid	4	33
Quinine tablets	1	—
Sheep-dip	1	1
Sodium nitrate	1	—
Strychnine	4	13
Sulphonal	4	—
Sulphuric acid	5	5
Vermin-killer	—	6
Veronal	1	—
Weed-killer	4	—
Yew-leaves	—	1
Kind not stated	24	50

Italian Pharmacy Law.

The proposals made by the Italian Government for the amendment of pharmacy law in that country are likely to come to nothing. The opposition to the proposals has come from many quarters of Europe, especially from manufacturers of trade-marked chemicals and medicinal specialities; even the Proprietary Articles Sub-section of the London Chamber of Commerce, Chemical Section, has this week taken steps to see that the rights of manufacturers of English proprietary medicines are not trampled on. At the meeting of the Pharmaceutical Council on Wednesday a letter from Messrs. Roberts & Co., Florence, was read, asking the support of the Council to their objections against proposals of the Bill which would ultimately shut up English pharmacies in Italy. We are able to state that the Italian Government has decided to drop the measure, and this assurance has been given not only through London, but in other centres outside Italy.

Wholesalers and Pharmaceutical Education.

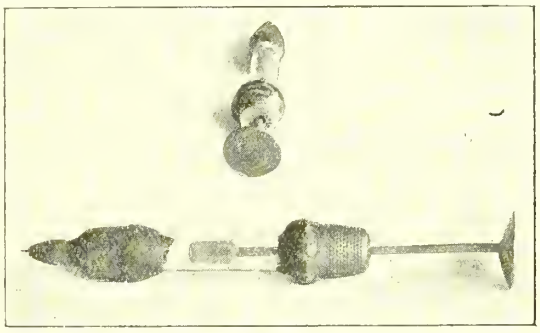
We are pleased to observe that the conditions for the exhibition or prize which Mr. John C. Hewlett has endowed in the School of Pharmacy have been made somewhat more elastic. It is intended for those who have passed the Minor examination and who desire to carry their studies further. It is a somewhat remarkable fact that Mr. Hewlett is the first London wholesale druggist who has contributed in this way to pharmaceutical education, unless we were to reckon the Fairchild scholarship and prizes, the founders of which have business premises in London as well as in New York. The latter, however, are really an American gift. The only other pharmaceutical scholarship founded by a manufacturing chemist in Great Britain is the Manchester one, the money for which was given by Mr. F. Baden Benger. Now that Mr. Hewlett has set the example to wholesale druggists, we see what magnificent opportunities have been missed by that class during the past sixty years! Will that go on?

Diploma Delays.

Numerous complaints have been made during the last few months about the dilatoriness of the Spectacle-makers' Company in sending on the diplomas of successful candidates at the Company's examinations. It will be remembered that the matter was referred to at a meeting of the Society of Chemist-Opticians last November, and we understand that the Society has since been moving in the matter. We have been assured this week by the Spectacle-makers' Company that all arrears in delivering diplomas have been overtaken, with the reservation that there may be cases where the fees have not been paid, and consequently no diplomas have been supplied. The delay, we are informed, has been due to the difficulty in obtaining the signatures of some members of the Court of the Company; but this, we think, hardly accounts for delays amounting to several years. It is possible that the smaller number of entries at the November examination is due to the way the Company appears to regard its obligations to candidates, although it is fair to add that the last examination was the first under the new syllabus. We have definite information of cases where applicants for copies of the syllabus and particulars of the examinations could not obtain replies, and it is not at all unlikely that such treatment has affected the number of entries for the examinations. If any of our readers who are entitled to receive the diplomas have not yet had them delivered, we should be glad if they will communicate with us so that we can further investigate the matter.

The Wily Oriental.

We are indebted to Messrs. C. J. Hewlett & Son, Ltd., for the photograph from which the subjoined engraving has been made. It shows two hypodermic syringes, which were seized by the Burmese police from some so-called morphia fiends, who, owing to the stringent regulations now in force out there, cannot by purchase obtain ordinary hypodermic syringes, so the insatiable desire for the narcotic compels the production of these home-made articles, which Mr. E. A. Smith, Ph.C., the company's



traveller in Burmah and the Far East, sent home. It will be seen that the barrels consist of pill-tubes, the top and bottom are thimbles, and the tops of the pistons are coins. The syringe is an object-lesson on the difficulties which will attend any resolution come to by the International Opium Commission now sitting in Shanghai.

The Spectacle-makers' Company.

The following is a list of the successful candidates at the Optical examinations of the Company held on November 23, 24, and 25, 1908:

Preliminary and Final Examination.

*Dunlop, J., Oban	Davies, A. A., London
Martin, R., Wrexham	Warner, R. V., London
Armstrong, M. Knutsford	Jenkinson, E., Manchester
Richardson, S. C., London	*Lake, W. H., Exeter
*Horrocks, G. G., Maidenhead	Whiteley, A., Barnsley
*Mumford, H., London	Morton, M. C., Leek
Giles, E., Wombwell	*Bennett, T. L., Stockport

The names of chemists are indicated by asterisks. Eleven candidates failed. The successes in the Preliminary and Mathematics examination are now only supplied under the initials of the candidates. There were altogether forty-eight candidates in November.

A Court dinner was held in the Carpenters' Hall, London Wall, London, E.C., on January 28, among those present being Sir W. Christie (Astronomer Royal), Mr. R. A. Robinson (Chairman of the London County Council), Mr. H. Trentham Maw, Colonel Clifford Probyn, Mr. G. Lindsay Johnson, Dr. C. V. Drysdale, Mr. G. Bennett (Stockport), Mr. J. Harcombe Cuff, and Mr. A. Upson (Maidenhead). Mr. R. A. Robinson responded to the toast of "The Visitors."

Extending a Proprietary.

By Thomas Russell.

VI.—The First Efforts in Advertising.

HAVING touched lightly upon the art of newspaper-advertising, I undertook to say this week something about organising the sale or extending the business beyond the home town. This work should only be begun after the home paper has been used as a medium for experimenting.

While not at all conforming to the general belief that all advertising is continuously an experiment, I of course agree that all new advertising *begins* by being experimental. Neither I nor anybody else can tell you in advance of an absolutely certain means of pushing a new article. Every kind of merchandise requires its own special treatment. What this treatment will have to be is the function of the home paper to teach you. It is to be presumed that no one is unreasonable enough to expect to work himself up into the position of a considerable general advertiser without thought and perseverance. These, and not rash expenditure of capital, are what have been the foundation of the best businesses, more especially in this line—the line of pharmaceutical specialities. We must be prepared to spend a little money at the start in purchasing experience.

Let some advertisements be written and inserted at a moderate expense in the local paper. If there are two or more local papers, choose the one having the best circulation first, and note what sort of a result is got from the advertising. I am presuming that a window-show of some kind—better or worse—has been made. This will help, and be helped by, the newspaper-advertising in creating sales.

If there is any seasonal character attaching to the goods, a regard will be paid to it in selecting the time for the first advertising. It is not much good advertising a bronchitis-cure in August—at all events, at the beginning of things. But assuming the time and the goods to be right, devise the best advertising-form that you can, and run a fresh advertisement each week in this form for two or three weeks. Very likely there will not be enough of the goods sold to pay for the space, but certainly some people—including some new people—will be brought into the shop, and you will get at least the chance of making customers of them for other merchandise besides that which is advertised. If the sale of the article is pretty brisk, and if in a week or two it does pay a profit on the advertising, by this you may be sure that you have struck the right advertising-form at the first trial. This will be an exceptional case, but I beg that you will not put it down to luck. Put it down to your own forethought and skill.

Let us provide for all cases, including the worst. If the first few advertisements do not answer, try to find out what was the matter with them. Was the space not large enough? Or was it too large, so that it cost too much for the result? Or was something wrong with the matter of the advertisement? A little tactful investigation ought to yield knowledge on the last point. Try to find out what people think of your advertising.

The enormous advantage enjoyed by the retail trader when he begins advertising—the great superiority of his position compared with that of a wholesale advertiser, even with large capital—will have been perceived in the last remarks. The retail man can get to know directly from his neighbours and friends whether he is on the right tack, and their opinion is worth as much as that of the most expensive trained expert. Of course, he can, if he chooses, get into communication with some London advertising-agent, and the agent will write his advertisements for him, and make the contract with the local paper. Probably he will charge a fee, though if it is explained to him that a quite extensive campaign is eventually contemplated he will probably do it for the commission he will get from the newspaper, because when the account grows his commission will be something worth having. On the whole, however, it is probable that most chemists who go into this business will write and place their own advertising, at all events in the early stages.

Co-operative Societies claim to have paid 6,639,208*l.* to the national revenue in 1904-8—it was on sugar, beer, coffee, cocoa, dried fruit, and tobacco, not on profits.

Eriodictyon.

A SECOND instalment of the results of chemical examination of eriodictyon by Messrs. F. Tutin and H. W. B. Clewer in the Wellcome Chemical Research Laboratories was communicated to the Chemical Society on January 21. The authors recalled that an examination of eriodictyon-leaves conducted by Power and Tutin ("Proc. Amer. Pharm. Assoc.," 1906, 54, 352) resulted in the isolation of a number of compounds, among which were three new crystalline substances of a phenolic nature—namely, eriodictyol. $C_{15}H_{12}O_6$ (m.p. 267°); homoeriodictyol, $C_{16}H_{14}O_6$ (m.p. 223°); and a third substance, possessing the formula $C_{16}H_{12}O_6$, which was obtained only in very small amount. The authors have now worked up a larger amount of the extract of eriodictyon-leaves, and, after a prolonged process of fractional extraction by means of solutions of ammonium and sodium carbonates, have isolated from the ether-soluble portion of the resins a larger amount of the substance $C_{16}H_{12}O_6$, together with two new compounds.

Chrysoeriol, $C_{16}H_{12}O_6$, the substance previously isolated in small amount, forms golden-yellow leaflets, and does not fuse at 337°. It contains three hydroxyl groups, and yields triacetylchrysoeriol, $C_{16}H_9O_6(CO.CH_3)_3$, which melts at 211-212°.

Xanthoeridol, $C_{18}H_{14}O_7$, the first of the newly isolated substances, crystallises in yellow needles, which melt at 258°. Triacetylxanthoeridol, $C_{18}H_{11}O_7(CO.CH_3)_3$, fuses at 175-176°.

The other new compound, designated "eriodonol," posseses the formula $C_{19}H_{18}O_7$, and, when anhydrous, melts at 209°. It separates from dilute alcohol in pale-yellow needles, which contain one molecule of water of crystallisation and melt at 199°. It yields a tetra-acetyl derivative which fuses at 131°.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with Sir C. N. Dalton K.C.M.G., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office. The figures in parentheses refer to the classes applied for.

(*From the "Trade-marks Journal," January* 27, 1909.)

"Merry Widow"; for mineral-dyes (1). By Patent Specialities, Ltd., Canal Wharf, New Mills, Derbyshire. 307,768.

"Eos"; for chemicals (1). By Eugen Albert, Schwabingerlandstrasse 55, Munich. 307,781.

"Sofnol"; for softeners (1). By Water Softening Materials Co., Wesycombe Hill, Greenwich. 308,441.

"Federation"; for chemicals (1). By Co-operative Wholesale Society, Ltd., 1 Balloon Street, Manchester. 309,126.

"Nativelle" (by order); for digitalis preparations (3). By Martignac & Co., 24 Place des Vosges, Paris. 300,453.

"Nivea"; for medicated soap (3), and toilet soap (48). By P. Beiersdorf & Co., Eidelstedter Weg 38 to 42, Hamburg. 307,410, 307,411.

"Upjohn's Friable Pills," and label device; for pills (3). By the Upjohn Co., 223E Lovell Street, Kalamazoo, Mich., U.S.A. 307,800.

"Irisweal"; for a medicine (3). By S. I. Heal, 59 Abingdon Villas, Kensington, London, W. 308,245.

"Asphalene"; for medicinal chemicals (3). By Camille Jacquemet, 3 Place Vauconson, Grenoble. 308,372.

"Vegetex"; for all goods (3). By W. Scott and H. Hardman, 287 Rochdale Road, Bury, Lancs. 308,391.

"Bromoglidine," "Ferro-glidine," and "Iodoglidine"; for medicinal chemicals (3). By Menley & James, Ltd., Farringdon Road, London, E.C. 308,517, 308,518, 308,519.

"Rhinoculin"; for a medicine (3). By E. Ritsert, 32 Moselstrasse, Frankfurt-on-Main. 308,800.

"Benzymes"; for medicinal chemicals (3). By Benger's Food, Ltd., Mary Street, Strangeways, Manchester. 309,238.

"Parateka"; for indiarubber substitutes (4). By Typke & King, Ltd., 16 Mincing Lane, London, E.C. 307,360.

"Pentine"; for a turpentine substitute (4). By Major & Co., Ltd., 447 Wincolmlee, Kingston-upon-Hull. 308,137.

"Stereolette"; for photographic apparatus (8). By W. Butcher & Sons, Ltd., Farringdon Avenue, London, E.C. 309,015.

"Amberol"; for scientific instruments, etc., but not including sound-reproducing instruments (8). By the National Phonograph Co., Ltd., 25 Clerkenwell Road, London, E.C. 309,056.

"Lady's-tor"; for syringes (surgical) (11). By H. A. Kaysan, Wilhelmshoher Allee 4, Kassel, Germany. 304,217.

"Shurzine"; for perfumery, etc. (48). By H. E. Skyrme, 12 Wellington Place, Hastings. 304,964.

"La Milo," and picture of Venus de Milo; for all goods (48). By H. W. K. Pears, Hove, Sussex. 307,372, 307,537.

"Rusa Ka Tel"; for all goods (48). By Gustav Boehm, 38 Moreland Street, London, E.C. 307,386.

"Comforto"; for a preparation for the feet (48). By F. W. Wybrew, 440A Romford Road, London, E. 307,510.

"Mia Cara"; for perfumery, etc. By W. F. Charles, Loughborough. 308,195.

"Maroxo"; for a hair-pomade (48). By G. H. Kent, 14 Albert Road, Bournemouth. 308,239.

"Siciline"; for perfumery, etc. By F. S. Cleaver & Sons, Ltd., 32-34 Red Lion Street, London, W.C. 308,515.

"Shampos"; for a hair-cleansing powder (48). By H. G. Thompson, 174 Shear Brow, Blackburn. 309,071.

"Pelha-mel"; for perfumery, etc. (48). By Boot's Pure Drug Co., Ltd., Nottingham. 309,246.

Information Wanted.

Inquiries for the names and addresses of manufacturers, or other trade information, not traceable by reference to the advertisement-pages of "The Chemist and Druggist" and the "C. & D Diary," or not filed in our private register, are inserted here free of charge. Postcard or other replies to any of the subjoined inquiries (addressed to the Editor "The Chemist and Druggist," 42 Cannon Street, London, E.C.) will be esteemed.

197/37. Where can Faletis be obtained?

194/2. Makers of koumiss from mare's milk.

191/42. Makers of the "Ranie" bath-glove.

201/5 Makers of Camphorno, or where obtainable.

198/21. Ferrum Lacto Tablets: who are the makers or agents?

194/3. Makers of sanitary upright milk-feeders with bent-glass tubes.

200/58. Curtice's extract of nut galls made by W. Freeman: where obtainable?

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

The Parent of Radium.—Mr. F. Soddy, in a letter to "Nature" (January 28, p. 366), says further evidence on the question whether an intermediate body exists between uranium x and the parent of radium may be expected when the uranium specimens under observation for many years begin to grow radium. In the meantime he states that he has established that there is a feeble residual α radiation remaining in all his uranium x preparations, after the β radiation has decayed, which former rays then remain constant; one specimen, four to five years old, showing no change of activity under careful observation for nine months. This is not in opposition to the view that the direct product of uranium x may give the missing α ray and prove to be the parent of radium.

Non-Homogeneous Beta-Rays.—Mr. F. Soddy, in the letter to "Nature" of January 26, also states that he finds that the β rays of uranium x, which are usually regarded as homogeneous, in a magnetic field are twice as strong as the value usually given for these rays ($H\rho$ 2000). Five per cent. of the rays still enter the electroscope, while with even stronger fields the effect of the β rays is still marked. So far he has not been able to prove that these rays are other than primary β rays.

The α Particle.—Professor E. Rutherford and T. Royds ("Proc. Manchester Lit Soc.," vol. liii., part 1) give an experiment which they consider affords conclusive proof that the α particle after losing its charge is an atom of helium. Other evidence shows that the positive charge on the α particle is twice that carried by the hydrogen atom. The purified radium emanation from 150 mgms. of radium was compressed into a fine glass tube about 1.5 cm. long, the walls of which were strong enough to withstand the atmospheric pressure, but thin enough to allow passage of the greater part of the expelled α particles. This tube was surrounded by a cylinder exhausted by means of pump and charcoal tube immersed in liquid air. At the end of two days the helium spectrum was faintly visible on compression of the gases in the vacuum tube, in four days the yellow and greens came out brightly, while after six days practically the whole helium spectrum was seen. No trace of helium was observed in the outer tube in a period of eight days when the radium emanation in the tube was replaced by ten times its volume of helium, nor in any experiment until the emanation was introduced into the capillary, thus excluding *diffusion* of helium through the thin glass walls.

Medical Gleanings.

Pneumonia-treatment.

According to Dr. Daniel Crowley ("Lancet," January 16, p. 160), an initial dose of calomel, followed by four hourly doses of a mixture of potassium iodide (4 grains), potassium citrate (10 grains), and solution of ammonium citrate (ʒss.), is an efficient treatment for pneumonia.

Surgical Treatment of Constipation.

Dr. C. W. Mansell Moullin believes he performed the first operation of ileosigmoidostomy for the relief of very obstinate constipation in October 1900 ("Lancet," January 16, p. 156). Four years later the patient was still perfectly comfortable, the bowels acting well either of themselves or with the aid of small doses of a laxative, such as liquorice-powder. Since then six other patients have had the operation performed, without any fatality, for obstinate constipation resisting all measures of relief. The merits of the operation are, briefly, that it enables the intestinal contents to avoid that portion of the bowel in which they are specially prone to be detained, it is almost entirely devoid of risk, and it does not deprive the patient of any organ.

Asthma.

According to Mr. William Lloyd ("B. M. J.," January 16, p. 143), the three factors in the causation of asthma are:

1. The presence of hypersensitive areas in the nasal mucous membrane, or a special sensitiveness of the gastric mucous membrane.
2. Special irritability of the pulmonary nervous system, which constitutes the asthmatic idiosyncrasy with which the individual is born.
3. The presence of an irritant.

The absence of any one of these factors is sufficient to prevent disease. Careful dieting cures a large proportion of asthmatics, none of whom should dine less than five hours before going to bed. Asthmatogenic areas must be cauterised, and any disease or deformity of the nose, likely to cause asthma, must be rectified. For nasal cleansing the author states that nothing acts so well as a solution of common salt in water.

A German View of Opsonic Treatment.

Dr. G. Wolfsohn learnt the technique of determining opsonic indices from Sir Almroth Wright, and since returning to Schöneberg Hospital he has continued his investigations, and now discusses the doctrine on theoretical views. Leaving the nature of opsonins alone, he states ("Berl. klin. Woch.," 1908, December 7, through "B.M.J.") that doubt exists as to whether phagocytosis is tantamount to immunity. In several cases the raising of opsonic index and clinical improvement have not run parallel, and high opsonic indices to typhoid bacilli have been observed in a scarlatina patient, and in several cases of tuberculosis and staphylococcic infections. Such facts detract from the specific diagnostic value of the opsonic index. Further, in discussing possible errors in counting, Dr. Wolfsohn says that in spite of considerable experience differences which might amount to 20 per cent. present themselves. He concludes by stating that Wright's method of determining opsonic indices is not suitable for clinical diagnosis, and certain diagnoses would be possible only when very large numbers of cells were counted and the results were very distinct.

Pharmaceutical Society of Great Britain.

COUNCIL-MEETING.

THERE were eighteen councillors at Wednesday's meeting, which was mostly occupied with formal business. The Registrar's annual report showed that there were altogether 15,967 persons on the registers of pharmaceutical chemists and chemists and druggists at the end of 1908, against 16,110 at the corresponding period of 1907. The reduction is due to the fact that 221 names were removed because the addresses have not been communicated to the Registrar. The sum of 97*l.* 8*s.* was granted to applicants for relief from the Benevolent Fund. The trust-deed of the Hewlett Memorial prize-scheme was ordered to be signed and stamped with the seal of the Society. The examiners' report on the January examinations shows that, of 248 candidates examined, only ninety-three passed. The Privy Council have communicated with the Society regarding a Pharmacy Bill which is before the Italian Parliament.

A MEETING of the Council was held on February 3 at 16 Bloomsbury Square, London, W.C. There were present the President (Mr. J. R. Young), Vice-President (Mr. J. F. Harrington), Treasurer (Mr. Walter Hills), and Messrs. C. B. Allen, A. S. Campkin, W. G. Cross, J. H. Cuff, W. L. Currie, W. H. Gibson, R. L. Gifford, D. Gilmour, A. Hagon, A. E. Hobbs, G. T. W. Newsholme, C. J. Park, P. F. Rowsell, E. White, and A. C. Wootton.

The PRESIDENT mentioned that Dr. Symes was away owing to a pressing business engagement, and that Mr. Harrison was unable to leave home because of illness in his family.

THE LATE MR. C. B. BELL.

The PRESIDENT then referred to the death of Mr. C. B. Bell, Hull, with whom he had been acquainted for a large number of years. Mr. Bell had been, he said, an enthusiastic and efficient supporter, and the backbone of the Society in that part of Yorkshire.

Mr. CROSS spoke of Mr. Bell as one of his oldest colleagues in connection with another society. Mr. Bell, he added, used to attend the annual meeting of the Society, and was the first to move a vote of thanks to the Council at the annual meeting.

The PRESIDENT mentioned that Mr. S. R. Atkins, Salisbury, had been made a county magistrate.

ELECTIONS AND RESTORATIONS.

Eighty-two members were elected and thirty-one student-associates. Thirty-eight persons were restored to their former positions in the Society, and two chemists had their names replaced on the register, after making the statutory declaration and paying the fee of one guinea.

NEXT COUNCIL ELECTION.

The SECRETARY reported, pursuant to statute, that the following members of the Council will retire next May :

C. B. Allen.	D. Gilmour.
A. S. Campkin.	W. Hills.
W. G. Cross.	C. Symes.

A. C. Wootton.

Mr. GILMOUR referred to the fact that his name was among those who retire because he took the position of another councillor who resigned. He hoped he should have the support of chemists in the South, without whose assistance a Scotch member cannot obtain election.

ANNUAL REPORT.

The SECRETARY next presented his annual report, which showed the state of the registers and memberhip of the Society on December 31, 1908. There were 15,967 names on the register, compared with 16,110 at the end of 1907 —13,897 chemists and druggists and 2,070 pharmaceutical chemists. In regard to the annual subscribers to the Society, the number of members on December 31 stood at 6,070, against 6,043 at the end of 1907; and the student-associates 474, against 439 in 1907. Life compounders numbered 561, against 555 at the end of the previous year. An analysis of the examinations for 1907 was also given, from which it appears that 406 students were registered, against 266 in 1907, and out of 46 (72 in 1907) Major candidates, 22 passed. For the Minor there were 1,380 candidates (1,126 in 1907), and of these 354 passed, against 411 in the previous year. The erasures from the register were 526 (274 in 1907); additions, 383 (against 437)—a net decrease of 143. Following these statistics the Registrar gave particulars of the cases of alleged infringement of the Pharmacy Acts investigated during 1908, the following being a summary of the 164 cases :

Drug-store Proprietors	49
Unqualified Managers and Assistants in Drug-stores	5
Chemists	1
Unqualified Managers and Assistants to Chemists	44
Unqualified Managers to the Executors of Chemists	1
Limited Companies	1
Unqualified Directors, Managers, and Assistants to Limited Companies	55
Grocers and General Dealers	5
Herbalists	2
Proprietor of a "Specific"	1

In sixteen other cases of alleged infringement which had been reported at Birmingham (2), Blackpool, Jarrow, Lewisham, Manchester, Neath, Nottingham, Oldham, Ossett, Pendleton, Portsmouth, Preston, Tipton, Walsall, and Winsford, it was found upon analysis that the poison asked for had been omitted from the articles purchased, and proceedings could not, therefore, be taken under the Pharmacy Acts. A footnote adds :

In the Blackpool case above referred to, an unqualified proprietor of a drug-store who had sold a preparation labelled "Paregoric, Poison" (which contained no opium), was proceeded against and convicted under the Merchandise-marks Act for applying a false trade-description to goods, and for selling goods to which a false trade-description was applied.

Mr. HAGON again called attention to the number of secessions from the Society, and said that on account of this leakage the Society failed to make satisfactory progress.

Mr. GILMOUR mentioned that the list of Pharmacy Act cases taken up would be an effectual reply to those chemists who complained that the Society did not take steps to stop irregularities.

The TREASURER said too much stress should not be laid on the prosecutions, which are undertaken primarily in the public interest. The Society has many other functions besides conducting prosecutions.

The PRESIDENT, replying to Mr. Hagon, said he could not see what steps could be taken to compel members to continue their subscriptions. He wished they would, as the discontinuance causes a lot of extra work. If members would not read what is said in these reports about the prosecutions which the Society undertakes, he knew of no other way of bringing the matter to the notice of the members.

Mr. GIFFORD : By means of an organising secretary. (Laughter.)

FINANCE.

The report of the Finance Committee was next presented by the Vice-President, the following being the chief items. The receipts during the month were :

	£	s.	d.
Penalties and Costs	38	6	0
Subscriptions	717	3	0
"Pharmaceutical Journal" and publications	315	7	7
Restoration Fees	4	4	0
Registration Fees	39	18	0
School Fees	26	17	0
Rent	54	12	6
Ground Rent	13	1	3
	£1,209	9	4

With the balance remaining after discharging the accounts authorised for payment by the Council in January, a sum of 789*l.* 13*s.* 5*d.* remains with which to pay the following amounts :

	£	s.	d.
On behalf of the "Journal" and publications	968	15	9
Stationery, etc.	59	7	3
Current expenses	250	0	0
Salaries, etc.	271	13	4
School and examinations	279	11	11
Law charges	91	16	6
House	312	9	0
	£2,233	13	9

The Benevolent Fund balances were as follows :

	£	s.	d.
Current account	109	12	11
(Recommended for Payment)	13	19	9
Donation Account...	33	5	6
Orphan Fund	11	3	10

The VICE-PRESIDENT, in moving the adoption of the report, said that those members of the Council who wished to see how the item "Current expenses" is made up may inspect the books in charge of Mr. Jones, the office accountant. The Benevolent Fund, he mentioned, has received donations from Mr. G. Donaldson (Portsea) of five guineas, and the Chemists' Assistants' Association 1*l.* 1*s.* 6*d.* He noted also that a loan of 200*l.* from the Orphan Fund to the Benevolent Fund current account was made for convenience of investing the money.

The report was adopted.

BENEVOLENCE.

The report of the Benevolent Fund was then taken in Committee, after which,

Mr. CROSS, in moving the adoption of the report, stated that 97*l.* 8*s.* had been granted to applicants. He hoped that members, in sending up their subscriptions, would remember to include a subscription to this fund.

The report was adopted.

L., M., S., AND H. COMMITTEE.

The TREASURER next presented the report of the Library, Museum, School, and House Committee, the item of interest being the approval of Messrs. Parkinson's bill for 82*l.* 2*s.* 3*d.* The Treasurer explained that this item included some additional furniture for the lady students' room and repairs to pipes injured in the recent frost.

The report was adopted.

HEWLETT MEMORIAL PRIZE.

The PRESIDENT said that the Hewlett Memorial prize scheme, which was referred to at the meeting of the Council last December, has taken concrete form; the trust-deed has been prepared and is ready for signing and sealing. The gift, he added, is particularly appropriate at a time when there is a disinclination shown to proceed from the Minor to the Major.

The TREASURER endorsed these remarks. All those interested in higher education will be glad that Mr. Hewlett has given this money to help students to proceed to the higher examination. The Council welcomed money for benevolent purposes, but attached as much importance to gifts encouraging education, which the Society has so much at heart. He mentioned also that the trust-deed has been drawn up in wide terms, so that, should any alteration be made in examinations, the Society could still use the money to assist the education of students.

A resolution was passed authorising the seal of the Society to be affixed to the deed.

EXAMINATION MATTERS.

The REGISTRAR reported that he had during the month accepted certificates from forty-eight persons for registration as apprentices or students.

The Boards of Examiners in England and Wales and Scotland reported on the January Minor examinations. In London 184 candidates were examined, and 60 passed, the number in Edinburgh being 64, of whom 33 passed.

Dr. G. Balfour Marshall's report for 1908 as visitor to the examinations in Scotland was transmitted by the Privy Council. This report gives a number of statistics in regard to the candidates and the subjects in which they failed, and concludes with the following remarks :

The most striking feature of the examinations held during the year 1908 is the very marked decrease in the number of candidates. Whatever the cause may be this decrease has been in progress since the year 1904, with the result that the annual turnout of qualified pharmacists has been much reduced, and were it not that the percentage of passes during the past two years has been above the usual average, the number who were granted the Pharmaceutical Society's diploma would have been still less. For the sake of comparison the following table is given, showing the number of candidates, and how many of those passed in each year from 1897 to 1908 inclusive :

Year.	Candidates.	Passed.	Percentage.
1897	578	191	33
1898	517	182	35.2
1899	484	175	36.1
1900	512	182	35.5
1901	415	184	44.3
1902	471	158	33.5
1903	532	172	32.3
1904	530	187	35.2
1905	421	141	33.4
1906	342	125	36.5
1907	351	137	39
1908	266	105	39.4

Although the numbers are fewer there has been a slight improvement in the appearance of the candidates, the percentage of passes having reached 39.4, which is over the average shown by the figures quoted above for the past twelve years. All the same the general standard can only be regarded as low, since fifty just reached the necessary minimum pass class-marks entitling them to a pass, while thirty-two were only one class-mark better. I understand that the minimum pass class-mark represents a figure somewhere in the region of 50 per cent., so that 78 per cent. of the successful candidates gained their diplomas with a bare pass. Considering, however, that most of the candidates have no systematic instruction beyond what they can acquire in a six months' cram course, the results are as good as can be expected, judging by past annual reports.

The examination is not an easy one, as seven subjects must be passed at one sitting, and it must be admitted that this is a strain on the average student, especially under present conditions of training, or rather absence of proper training. There are candidates who have appeared at two, three, or four of the past year's examinations, and have failed on each occasion.

The high percentage of failures in practical pharmacy and dispensing shows markedly the effect of this absence of systematic instruction, as the work set for examination is not above what any well-trained apprentice should readily accomplish in the ample time granted by the examiners.

Eight candidates, one of whom was only one short of full aggregate class-marks, made an excellent appearance. I have previously expressed the opinion that when the diploma is gained with high marks, as in the case of at least five of these candidates, special credit might be awarded. A diploma gained with "honours" or "distinction" such as pertains in the medical examinations would be a valuable asset to a newly qualified pharmacist in his future career, and with this fact before him would be a great inducement to the prospective candidate to do well at his examination.

I have in previous reports advocated a division of the Minor examination as being of advantage to a class of candidate who may be a good average student but has a difficulty in keeping himself up to the examination standard in so many subjects at once. Such a division would also obviate the hardship of a candidate being rejected in all seven subjects for failure in one. I select two examples as bearing on these points. A candidate received the highest class marked in the first three subjects in which he was examined, but failing at the fourth was rejected in all seven. It is possible that this was his one weak subject, as he passed at the next attempt, although with a lower average than he had previously shown. This candidate would no doubt pass his examination with high marks if taken in two parts, but his memory was not sufficiently retentive to keep him up to a high level in all seven subjects when taken at one sitting. Another candidate received a class-mark in each subject, but just failed to reach the minimum aggregate by one mark. At his second attempt he failed at the fourth subject and was rejected in all. He finally passed at the third attempt, just reaching the minimum aggregate.

In the reports for the years 1903 to 1906 inclusive I have fully stated my views regarding these questions of a compulsory curriculum, division of the Minor, percentage system of marking and granting a diploma "with honours." I would again draw attention to my remarks in these reports, as the Poisons and Pharmacy Act, 1908, now gives the Council

of the Pharmaceutical Society power to make by-laws "providing for periods of time and courses of study in connection with the qualifying examination, and dividing such examination into two parts."

I remain of the opinion that were candidates better prepared by systematic courses of instruction, especially as regards laboratory work, future reports would cease to show such high percentage of rejections.

The Board of Examiners in Scotland, whose turn it is to appoint examiners for the Pereira medal and Council prizes examinations, which are to be held in April, have nominated Professor F. O. Bower, Dr. L. Dobbin, and Mr. T. Wilson.

The Council approved.

Divisional Officers.

Mr. G. W. Shackleton (Abergavenny) was appointed divisional secretary for a division of Monmouth, and Mr. Edward Brooke (Crawley) for the Horsham division of Sussex.

Berthelot Monument.

The President read a translation of an appeal which has been received for subscriptions to the Berthelot monument which is being promoted in Paris. The General Purposes Committee are to consider the matter, and, said the President, if any member of the Society wishes to send a donation to Mr. Bremridge, it will be forwarded to the proper quarter.

Pharmacy for the Pharmacist.

Mr. Gifford said he would like to ask the President if he would explain the meaning of the word "pharmacist" as given in the Poisons and Pharmacy Act, and whether that word carries with it "the whole significance and logical consequence" that pharmacists only may employ the word "pharmacy" and other varieties of the word. Companies must not use the word pharmacist in any way because it is an attribute of a person.

The President said it was hardly fair to ask for a reply to that question, as the matter is controversial. Mr. Gifford would, however, see the trend of his (the President's) opinion from the speeches he has recently delivered in the country.

An Italian Pharmacy Bill.

The Privy Council sent a copy of a Bill to govern the practice of pharmacy and regulate the working of pharmacies which is before the Italian Parliament. Subsequently the Privy Council sent copies of a despatch from the British Ambassador at Rome which had been sent to the Foreign Office. A copy of a letter was enclosed by the Ambassador from Messrs. Roberts & Co., Florence. The Privy Council asked the Pharmaceutical Council to inform them of the number of English firms carrying on the business of a pharmacy in Italy, and also the number of Italians and other foreigners carrying on a pharmaceutical business in England.

The Secretary reported that he had prepared a list of chemists on the register who have addresses in Italy, but it is not possible to say how many are in business. There is no means of finding out the number of foreigners interested in pharmacy businesses in England.

The President said that there are six or seven British pharmacists in business in Italy, and the new Bill would quite destroy the commercial value of these concerns in the event of the death of the present owners. He asked that the matter be left to him to deal with in conjunction with the Secretary.

Mr. Wootton: I gather that the Bill has not yet passed. Does it prohibit foreigners altogether from carrying on business in Italy?

The Secretary: Yes, altogether. Those at present in business will be recognised, but no others.

The President: Those who are examined must be naturalised.

Mr. Wootton: That is similar to the French law.

Other Letters

were received, chiefly of a congratulatory nature, regarding the passing of the Poisons and Pharmacy Act. These were from the Hull Chemists' Association, the Liverpool Chemists' Association, the Wolverhampton Chemists' Association, and from the North British Branch evening meeting.

The Institute of Chemistry thanked the Council for allowing them the use of the Society's laboratories for the purpose of examining two candidates in January.

This concluded the public business.

Festivities.

Dances.

Assistants and clerks in the warehouse and offices of Messrs. Duncan, Flockhart & Co., South Back Canongate, Edinburgh, had a successful dance in the Victoria Hall last week along with some friends, about 100 being present.

The London staff of Messrs. Burroughs Wellcome & Co. held their annual dance at the Cavendish Rooms, Mortimer Street, W., on Friday evening, January 29, commencing at eight o'clock. The evening's enjoyment was greatly increased by vocal and instrumental pieces rendered between the dances by Signorina Caneparo, Miss Edith Crowder, Miss D. Hendrie, Count Grixoni, and Mr. E. K. Birchall. Mr. Edward Linstead, F.C.S., acted as M.C. Among the dances he provided were five Snow Hill quadrilles.

The Second Cinderella Dance

held in connection with the Western Chemists' Association of London demonstrated that its members have the genius of sociality. Last year's function, essayed in fear and trembling, was a success, but this year's (which took place at the Restaurant Frascati, on Friday evening, January 29) was a *furore*. So much so that there were hints of eclipsing even the time-honoured Chemists' Ball itself in future endeavours. This state of things is due mainly to the President of the Association (Mr. R. L. Whigham), the Secretary (Mr. H. Raithby Procter), and an efficient committee, among whom Mr. W. F. Gulliver was conspicuous. The company numbered well over a hundred. Among those who contributed to the enjoyment (besides the gentlemen mentioned) were the President's sister (Mrs. Allen), Mrs. J. F. Harrington, Mrs. Procter, Mrs. Gulliver, Miss Bourdas, Miss Craig, Mr. and Mrs. J. D. Marshall, Mr. and Mrs. Edmund White, Mr. and Mrs. J. W. Taplin, Mr. and Mrs. W. J. I. Philp, Mr. and Mrs. F. W. Gamble, Mr. and Mrs. Dixon, Mr. and Mrs. Arrowsmith, Mr. and Mrs. Presant, Messrs. W. Lamond Howie, C. T. Allen, W. A. Browne, and E. W. Royle.

Whist.

The annual whist-drive of the Worcester and District Chemists' Association was held at the Masonic Hall, Worcester, on Wednesday, January 27, upwards of 120 being present. Sixteen games, with variations, were played, and after an interval for refreshments dancing was engaged in most vigorously till the early hours of Thursday morning. The winners of the whist prizes were:

First lady (prize given by Mr. Alderman Stewart, J.P.), Miss M. Lunn (Evesham).

Second lady (prize given by Mr. F. G. Acton), Miss Condon.

Sealed number (prize given by Mr. H. J. Aubrey), Mrs. Parker.

First gentleman (prize given by Mr. C. W. Turner), Mrs. Coverdale (playing as gentleman).

Second gentleman (prize given by Mr. Lunn), Mr. Wall.

Sealed number (prize given by Mr. F. J. Hall), Mr. W. S. Carless.

Among those present were Alderman and Mrs. Steward, Mr. and Mrs. Acton, Mr. and Mrs. Aubrey, Mr. and Mrs. Coverdale, Mr. and Mrs. Hall, Mr. and Mrs. Haywood, Mr. Horniblow, Mr. and Mrs. Lunn, Mr. and Mrs. Swanson, Mr. and Mrs. C. W. Turner (Worcester) (each bringing a party), Messrs. Bavlis, Gedge, Lawton, Need (Malvern), Mr. Gibbs, jun. (Upton-on-Severn).

Lancaster Chemists' Association.

As briefly reported in our Supplement last week the second annual banquet of the Lancaster and District Chemists' Association was held on Wednesday, January 27, at the King's Arms Hotel, under the presidency of Mr. William Arkle. He was supported by the Mayor (Councillor Robert Wilson), Messrs. J. Vince, W. Taylor, Cuthbert

R. T. Simpson, R. S. Angus, R. Marshall, W. Gorel, A. Bate, T. Jackson, Maxwell, J. B. Shattock (Secretary), H. Troughton, Arkle, junr., J. Barker, Moses (local manager for Boots Ltd.), T. R. Swinburne (Messrs. Allen & Hanburys, Ltd.), G. C. Cockcroft (Messrs. Fletcher, Bristol), R. Knowles, F. N. Whitehead, S. Parker (Morecambe), J. P Porteus (Carnforth), Curtis, Moser, Moody, Barron, Fell, T. Robinson, Lee, Grosse, Happold, Cook, and Wardley. As upon the last occasion the menu was in Latin, affording some amusement to the guests. In the course of his reply to the toast of "The Association" the President spoke on the Poisons and Pharmacy Act, and as regards the title "pharmacist" said that title was now the exclusive property of qualified chemists and druggists, but he did not see what use it could be to them, because ninety-nine people out of every hundred did not know what a pharmacist was. The man in the street knew a bit about hen-farms or baby-farms, and he would probably consider that "pharmacist" was another kind of farming—(laughter)—and would not associate the term with chemists and druggists.

A "Cricket" Dinner.

A Company of about a hundred members of the "Allenburys" Cricket Club held their annual dinner at the Talbot Restaurant, London Wall, E.C., on February 2. Mr. W. Ralph Dodd occupied the chair, supported by Dr. R. J. Hanbury. After a substantial repast had been served, the Chairman drew attention to the success of the team, which suffered defeat in only three of the twelve matches played during the year. He then presented handsome prizes to the best batsmen and bowlers, the top scorer (Mr. W. J. Stokes) getting a wine-cruet and the best bowler (Mr. J. Oliver) a portmanteau. The other prizewinners were Messrs. W. Adams, C. H. T. Hyde, and Hill, the last-named obtaining his award for general excellence in his work for the second team. Mr. F. Lucioni, in a pointed and humorous discourse, said the Club had attained prosperity after a period of depression. An allusion to their defeat over the friendly rivals at Ware caused much merriment, and Mr. Lucioni hoped to do even better next season, when they would have a field worthy of the name of the House. He also asked for a revival of the annual sports at Ware, such as were held many years ago. A good entertainment was given by the "Allenbury" amateur singers, Messrs. C. Biggs, G. Wood, F. Flook, A. Wager, G. Howe, S. G. Beckley, F. Lucioni, H. Burling, W. J. Stokes, and G. C. Johnson. Mr. Sid Cooper, who provided the professional element, was singularly *à propos* in "Our Beano," which was given soon after the suggestion of the revival of the annual outing; while Mr. S. G. Beckley scored a success with "The Cruise of the Ancient Lights."

Scarborough Chemists' Association.

The annual dinner was held at the Brooklands, South Cliff, on Tuesday evening, January 26, when the following members and friends were present: The President (Mr. George Whitfield), Vice-President (Mr. R. M. Hill), Hon. Secretary (Mr. Senior), Messrs. Alfred Jones, Simms, Sutton, Hunt, Meadley, Newton, Clements, C. E. Foster, J. R. Foster, E. M. Chapman, J. W. Chapman, Cromack, Edmond, A. H. Jones (Ayrton, Saunders & Co., Ltd.), Lee (Jules Denoual & Co.), Cole, Kelsey, Lawrence, Lord, Crook, Longdin, jun., E. Parker, E. R. Cross, W. Eyre, and Pearson. After dinner and the loyal toast, Mr. E. R. Cross proposed the toast of "The Pharmaceutical Society," speaking highly of the Council's work during the past year. Mr. Edgar M. Chapman responded. Mr. A. H. Jones in the course of a racy and interesting speech proposed the toast of "The President and Members of the Scarborough Chemists' Association." The President, in replying, touched lightly upon the Poisons and Pharmacy Act, remarking that it was a Government measure; but the Pharmaceutical Council deserved much praise for their successful attempts in securing the admission of amendments which would prove beneficial to chemists. He strongly advocated the use of the title "pharmacist" by every registered chemist. Speaking for the Scarborough Association, he remarked on the successful working during the year and the good feeling among the members. In eulogistic terms the toast of "The Secretary" was proposed by Mr. Eyre, and accorded musical honours. "The Visitors," "The Artistes," "The Steward," and other toasts were heartily received during the evening. Mr. Alfred Jones gave several recitations, and Messrs. E. C. Foster, A. Cromack, and J. Foster rendered capital songs, and were accompanied by Mr. Edmond. Mr. W. R. Eyre was a capable director of ceremonies.

Dinner at Blackpool.

The annual dinner of the Blackpool and Fylde Chemists' Association was held at the Palatine Hotel, Blackpool, on Wednesday evening, January 27. There was a large gathering of members. Mr. F. Boothroyd (Hon. Secretary) presided, and he was supported by Mr. J. Rymer Young, Mr. H. M. Johnson (President of the Blackpool and Fylde Chemists' Association), and other officials. After dinner the Chairman read a letter from Mr. W. S. Glyn-Jones regretting his inability to attend, as his professional duties made it impossible for him to leave London. The loyal toasts having been honoured, Mr. J. Laurie proposed "The Pharmaceutical Society," and in the course of his speech mentioned the great service the Society had rendered to chemists in connection with the Poisons and Pharmacy Act. The energy and perseverance which the President (Mr. Young) had shown were also commented on. Mr. Young was accorded a hearty reception when he rose to reply. He remarked that he did not know whether it was the exhilarating air of Blackpool or the good dinner, but there seemed to be a greater air of alertness and intelligence than in most of the meetings he was accustomed to attend. He proceeded to explain the new Act, saying it would have a good effect on pharmacy generally and be beneficial to both chemists and the public. Mr. D. J. Bailey proposed "The Wholesale Drug-trade," and Mr. F. D. Crossley, of Manchester, responded. Mr. J. Rymer Young proposed "The Blackpool and Fylde Chemists' Association," and Mr. H. M. Johnson, in responding, spoke of the healthy state of the Association, the work that it had done and what it could still do. He urged the members to attend the meetings. The health of "The Visitors" was heartily drunk on the proposition of Mr. H. P. Withers, Mr. Wellings and Mr. N. A. Wood responding. "The Artistes" was proposed by Mr. C. H. Turver and Mr. R. Hall responded, while the Chairman was thanked on the initiative of Mr. J. Sankey. Two short jovial speeches were delivered by Mr. T. Carter and Mr. J. Jackson. The musical programme was arranged by Messrs. W. L. Mayson and C. H. Turver, and those who contributed were Mr. R. Hall, L.R.C.M., Mr. Will Shaw, Mr. Dakin, and Mr. W. L. Mayson; while Mr. A. Vivian Jackson was an efficient accompanist.

Aberdeen Pharmaceutical Association.

An admirable and highly appropriate sequel to the visit of the British Pharmaceutical Conference last autumn was the "At Home" held in the Carlton Rooms on Monday evening, February 1, by the local committee, when a company of fifty ladies and gentlemen who had taken a more or less active interest in the meetings of the Conference sat down to supper under the chairmanship of Mr. William Giles. At the Chairman's table were Mr. W. F. Hay (Hon. Secretary), Bailie Paterson (Assistant Secretary), Mr. Horne, Mr. C. Simpson, along with Mr. W. Giles and members of the Ladies' Committee. Among others present were Mr. and Mrs. A. L. Strachan, Mr. and Mrs. Black, Mr. and Mrs. Bruce, Mr. and Mrs. Crossling, Mr. and Mrs. Leslie, Mr. and Mrs. Reith (Cults), Mr. Mackie (Culter), Mr. R. W. Dunn, Mr. Marr, Mr. Gray, Mr. and Mrs. Ness, Mr. Ross, Mr. and Miss Reid, Mr. and Mrs. G. Simpson, Mr. P. D. Milne, Mr. Henricks, Mr. Shearer, and Mr. Lewis. After supper the Chairman intimated apologies from Provost Alexander (Banff), Mr. J. P. Kay, Mr. Weir (Kemnay), and Mr. Tocher (Peterhead). He then explained that the meeting had been arranged so that the Ladies' Committee could be present, and in this way to make some acknowledgment of their services, and also a suitable occasion at which to recognise the services of the Secretaries, upon whom fell the burden of the work in connection with making the arrangements for the Conference. He then presented Mr. Hay with a revolving bookcase and reading-chair as a token of the committee's appreciation of the satisfactory way in which he had performed the duties of Secretary, and Mr. Paterson with a case of sovereigns as a mark of the

committee's appreciation of his services as Assistant Secretary. The health of these two gentlemen having been honoured, Mr. Hay feelingly replied, briefly sketching from its inception the work of the local committee, and paying a high compliment to Mr. Tocher for the part he played in forwarding the arrangements. Bailie Paterson also thanked the committee, and incidentally said that during his long experience of public life this was the first time he had had occasion to reply for a presentation. The other toasts were "The Ladies' Committee," proposed by Mr. David Anderson, who coupled with it the name of Mrs. Giles, convener of the Ladies' Committee. Mrs. Giles, in a neat and graceful manner, replied on behalf of herself and the other ladies, saying that they were more than repaid by all the kind appreciation at the time and the many flattering letters received since from visitors from the South. The health of other members of the Executive was proposed by Mr. Ritchie in a highly humorous speech, and replied to by Mr. Craig, after which the company adjourned to the ball-room, where dancing was engaged in till 2 A.M., when a cordial vote of thanks to the ladies and gentlemen who contributed to the night's enjoyment by song or story, and to Mr. Chas. Simpson, who had charge of the arrangements, brought a highly enjoyable meeting to a close.

Cardiff Pharmaceutical Association.

The annual dinner of this Association was held at the Royal Hotel, Cardiff, on Wednesday, January 27, Mr. H. A. Gerhold (President) in the chair. He was supported on the right by the Lord Mayor (Alderman Lewis Morgan), and on the left by Mr. A. E. Hobbs (Tunbridge Wells). The usual loyal toasts having been honoured, the Chairman proposed "The Pharmaceutical Society of Great Britain," and, referring to recent legislation, said that Mr. Hagon and Mr. Hobbs in the stand which they took before the Council represented the chemists generally of the country. (Hear, hear.) They refused to give way on the subject of their title, although it was held as a matter of policy by the majority of the Council that they should do so. Mr. Hobbs, in responding, said they stood that day on the

Threshold of a New Era,

and it behoved chemists throughout the country to ponder well what their actual position was. Personally, he felt that the future of pharmacy depended very much on the individual action of every chemist. During the last few months some of them on the Council had had an anxious time. Month after month they had stood in the minority, and at times had wondered whether they had been right in doing so, or whether they should have smothered their consciences and fallen in with the majority. (No, no.) But the way in which he had been received by those present made him feel satisfied that the attitude he, in common with his esteemed friend Mr. Hagon and two other members of the Council, took was the right and proper one. (Hear, hear.) They had stood loyally by each other, and had done what they could to preserve for future generations the restriction to themselves of the statutory title, which they had felt for a long time was their property. (Hear, hear.) Unfortunately, however, the forces arrayed against them were too great, and the Poisons and Pharmacy Act was now an accomplished fact, and would shortly come into operation, though he could not help thinking that the date fixed upon was an unhappy one. (Laughter.) If they had not succeeded in preventing the Bill from passing, they had the consolation that they could claim a good deal of credit for some of the amendments which had been made in it. Now they had reached another stage. They had to take the Act for what it was worth, and live up to its requirements. It would be their duty in a short time to begin to put their houses in order, so that whoever else might fail to rise to the strictest interpretation of the Act, they themselves would not be found wanting. That the operation of the Act would in many cases be a personal disadvantage to them he was prepared to admit, but it would be a very great delight to those who had to administer it if they could feel that the pharmacists throughout the country did not need looking after. Mr. Hobbs then referred to some features of the Act, incidentally remarking that much had been said as to whether they would be able to preserve the term "pharmacy," as well as that of "pharmacist." He hoped they would be able to do that; but that was a question which would most probably have to be decided by the Judges. Another point of interest which was agitating a good many was the nature of the certificate which would have to be exposed in their places of business. There was no doubt that, owing to the fact that examination certificates were frequently lost, it would be necessary to create a new certificate altogether to meet the requirements of the Act. A suggestion had been made that the membership certificate of the Pharmaceutical Society would be a very nice way of indicating that the holder was a registered chemist and druggist; but he did not think that was really the intention of the Act, and most likely a certificate would have to be specially prepared. In conclusion, he alluded to the terms in which the President of the Society had spoken of the part taken by Mr. Boot in connection with the Act, and said of course it was possible that that gentleman might make a personal application for a certificate, and that their President might have to support it. It might not be long even before they had him as their President, but personally he hoped that day was far distant. (Hear, hear.)

Mr. A. Hagon, who also responded, said it seemed to him that the new Act was going to make more work for the lawyers than for anybody else, at which their Lord Mayor might rejoice. Though he had himself strenuously opposed the Bill up to the last, now that it had become law he trusted they would all do their best to carry out its provisions. Let them do what they could to extract some honey from the gall. He asked them not to take any isolated action in regard to the Act, but to wait until their officers gave them the lead.

Mr. J. Lee Jones proposed "The City of Cardiff," to which the Lord Mayor and Councillor Jabez A. Jones responded. The toast of "Kindred Associations," which was proposed by Councillor Jones, was responded to by Mr. H. Matthews. "The health of the Visitors" was given by Mr. J. Reynolds, and Mr. Shackleton, of Abergavenny, and Mr. Evan Jones, of Llanelly, replied. Mr. A. E. Hobbs gave the toast of "The Cardiff and District Pharmaceutical Association," which the Chairman and Mr. E. Poole (Secretary) acknowledged.

Business Changes.

Properly authenticated business notices (not being advertisements) are inserted in this section free of charge if promptly communicated to the Editor.

Mr. Benjamin Harry, chemist and druggist, has relinquished the business at 97 Queen's Road, Peckham, London, S.E.

Mr. E. W. Carver, chemist and druggist, has purchased the business of Mr. J. T. Stewart, 60 High Street, Stoke Newington, London, N.

Mr. T. Jones, chemist and druggist, has disposed of his business at 47 Hall Lane, Liverpool, to Mr. Thomas Aspinall, chemist and druggist.

Kibble & Co., Ltd., Broadway, Deptford, S.E., have transferred their drug department to Brooks' Drug-stores, corner of High Street, Broadway, Deptford.

Mr. S. Gordon Smith, pharmaceutical chemist, has taken over the business of Mr. J. H. Collins, chemist and druggist, at 369 Brockley Road, Crofton Park, London, S.E.

Mr. Henry D. Kelf, Ph.C., has opened a new pharmacy at 3 Station Parade, Shortlands, Kent. Mr. Kelf purchased the stock and fittings of the business lately carried on by Messrs. Routley & Co., Shortlands.

Mr. E. Trible, chemist and druggist, Market Street, Penryn, has disposed of his business to Messrs. Wilmer & Hocking, chemists, 8 Market Strand, Falmouth, who will carry it on as a branch.

Mr. Maurice Smith, Ph.C., F.S.M.C., has acquired the business of Messrs. Morgan & Lawley, Vicar Street, Kidderminster. The business was started by Messrs. Lea & Perrins, of "Worcestershire sauce" fame, nearly a century ago. Mr. Hodgkinson, who eventually entered the wholesale drug-trade, carried it on for many years, and it passed after a few years' occupation by Mr. C. Julian to his assistants, Messrs. Morgan and Lawley, about forty years ago. Mr. Lawley died last October.

Winter Session of Chemists' Associations.

Association Presidents.

The Chester Chemists' Association is one of the smaller provincial pharmaceutical bodies which make little fuss and look after local interests without disturbing national affairs. This year's President is Mr. W. F. D. Shepheard, Ph.C., F.C.S., a member of the Pharmaceutical Board of Examiners for England and Wales. He served his apprenticeship in his father's pharmacy—Messrs. Davies & Shepheard, Bridge Street Row, Chester. There he had a good three years' instruction in the manufacture of galenical and other preparations and dispensing. He had to attend evening classes at the Grosvenor Museum, and there got a grounding in practical and theoretical chemistry and botany. In October 1889 he entered the School of Pharmacy, Bloomsbury Square, and passed the Minor in April 1890 and the Major in October of the same year. He then worked for twelve months in the Pharmaceutical Research Laboratory, under Professor Dunstan, where he helped to finish the work in connection with synthetic salicylic acid and other subjects of less note. His name is connected with that of Professor Dunstan in a communication to the Chemical Society which proved that caffeines obtained from tea and coffee are identical. After this Mr. Shepheard returned for a few months to Chester, then took a position with Messrs. Savory & Moore, Lancaster Gate, W., where he stayed for nearly two years, when he went to assist his father in the business to which he succeeded, on his father's retirement, a few years ago.

Mr. Shepheard.

Brief Records.

Hull Chemists' Association.—The meeting called for February 2 to discuss the Poisons and Pharmacy Act, 1908, has been indefinitely postponed, owing to the death of the President, Mr. C. B. Bell.

Flowers.—At the meeting of the Dundee Chemists Assistants' Association held on January 29, Mr. M. Rae gave a lantern-lecture on "Flowers" with finely coloured slides. The Association has arranged an "At Home" to be held in the Foresters' (Large) Hall on March 24. Tickets (lady's 3*s*. 6*d*., gent's 4*s*.) from Mr. F. A. Mackay, 177 Albert Street.

The Chemist in Literature was again portrayed by Mr. F. Pilkington Sergeant at the meeting of the Dewsbury and District Chemists' Association held at the Church House, Dewsbury, on Monday evening, February 1, and he was followed by Mr. J. H. Beacock with his quotations. Both were thanked. The Chairman (Mr. J. Day) was appointed to represent the Association at the dinner of the Harrogate Association.

Edinburgh Juniors.—At a meeting of the Edinburgh Chemists', Assistants', and Apprentices' Association at 36 York Place, Edinburgh, on January 13, Mr. David Murray (President) in the chair, Dr. W. Hope Fowler gave an address on "Some Electrical Problems," in which he described the application of Röntgen rays in surgical diagnosis and in the treatment of certain diseases. He also explained the use of high-frequency currents and of radium. The address was illustrated by lantern-slides of radiographs and by practical demonstrations.—On Wednesday evening, January 27, the members of the Association visited the works of Messrs. J. & J. Cunningham, manufacturers of fertilisers, Salamander Street, Leith, where the sulphuric-acid plant and other things were inspected.

The Annual Meeting of the Workington Chemists' and Druggists' Association was held in the Pow Café, Workington, on Wednesday, January 27, at 8.15 P.M. The election of officers for the ensuing year resulted as follows: President, Mr. Joseph Scott; Vice-President, Mr. J. R. Mason, Pow Street, Workington; Secretary and Treasurer, Mr. H. Lycett, 81 Corporation Road, Workington. A communication from the Secretary of the Pharmaceutical Society was read and resolutions in connection therewith passed. On the motion of Mr. Joseph Scott, seconded by Mr. Mason, it was resolved:

> That this Association place on record its appreciation of the valuable efforts of the President, the Parliamentary Committee, the Council, and the Secretary of the Pharmaceutical Society in obtaining such amendments to the Poisons and Pharmacy Bill as have resulted in the Poisons and Pharmacy Act, 1908, which Act this Association believes will go a long way towards improving the position of pharmacy.

Chemists in Fife.—A meeting of the chemists of Fifeshire was held in the Photographic Society's rooms, Kirkcaldy, on Wednesday, January 27, for the purpose of considering and deciding upon a common line of action as regards the Poisons and Pharmacy Act. Five-and-twenty chemists were present, and Mr. J. Rutherford Hill attended. On the motion of Mr. David Storrar, the chair was taken by Mr. David Gilmour, of Dunfermline. A thorough discussion of the position took place, in which the Chairman, Mr. Storrar, Bailie John Peebles (Kirkcaldy), Bailie McCorquodale (Markinch), Mr. Stewart (Kirkcaldy), Mr. Hill, and others took part. On the motion of Mr. Storrar it was agreed to form a Fifeshire Chemists' Association. Mr. Gilmour was elected President and Mr. Charles Stewart, 231 High Street, Kirkcaldy, Secretary, the affairs of the Association to be managed by a committee of fifteen. It was decided to hold the next meeting at Thornton.

The Grimsby and District Chemists' Association met at Walton's Hotel on Monday evening, February 1, Mr. Cor. Willson (President) in the chair. Messrs. C. H. Ashton, D. Brocklesby, H. W. Calley, C. Dewing, T. W. Ellis, A. Oliver, W. G. Robinson, T. D. Sneath, and the Hon. Secretaries (F. W. Helly and C. N. Chapman) were also present. Mr. H. Schofield was elected a member. The Poisons and Pharmacy Act was discussed. A communication from the Secretary of the Federation was read and reserved. Mr. Ellis proposed that a whist-drive and dance be held on behalf of the Pharmaceutical Benevolent Fund. This was seconded by Mr. A. Oliver and carried with four dissentients. Messrs. Ashton, Ellis, Oliver, and the Secretaries were appointed to carry out the arrangements. The annual meeting and dinner were fixed for Thursday, March 25, ladies to be invited to the dinner. Messrs. C. Dewing, Robinson, and the Secretaries were appointed to make arrangements and report at the next meeting.

Birkenhead and Wirral Chemists' Association.—At the general meeting held on Thursday evening, January 28, at the Association Rooms, Hamilton Street, the President (Mr. F. C. Cooling) opened a discussion on the Poisons and Pharmacy Act, with particular reference to Sub-section 2 of Section 2, instancing from his own personal experience the large quantities of powerful poisons, such as cyanides, which are required by horticulturists for fumigating-purposes. Emphasis was laid on the fact that after March 31 all trade in such poisons should be carried on by registered persons, and that every effort should be made by the members of the Association to convince the local authorities that ample facilities already exist in the district for the sale of agricultural and horticultural poisons. Letters to the Mayor of Birkenhead and the Chairman of the County Council of Wirral, embodying the names and addresses of members and chemists who are prepared to supply the public demand, were approved.

Three Towns Chemists' Association.—A quarterly meeting was held at 7 Whimple Street, Plymouth, on Wednesday, January 27, Mr. H. D. Davey (President) in the chair. Votes of condolence with the families of the late Messrs. Kinton Bond, G. Fairweather, and J. V. Williams, and with Mr. R. F. Roper, were assented to, all present standing. Prizes were handed to the successful candidates in the recent dispensing competition as follows: Senior: First, President's prize, Greenish's "Foods and Drugs," A. C. Cannon; second, Humphrey's "Materia Medica," C. A. Faull. Junior: Wills' "Prescription-reading," T. Pumphrey. The chief feature of the meeting was an address by Mr. W. J. Uglow Woolcock on the "Aims and Objects of the Pharmaceutical Defence Union." There was considerable discussion, Mr. Jas. Cocks (Stonehouse), Mr. R. F. Roper, Mr. F. A. Spear, and others taking part in it, the general feeling being that the Union is a matter for individuals rather than Associations to consider. Mr. Woolcock was heartily thanked.

Cheltenham.—The fifth annual meeting of the Cheltenham and District Chemists' Association was held at 5 The Promenade on Thursday, January 28, Mr. John Fletcher (President) in the chair. Messrs. W. Barron, M. C. Mansbridge, J. A. Thomas, A. C. Saxby, F. T. Palmer, A. Hill, H. B. Clark, J. J. Dolman, H. B. Lloyd, C. H. James, J. P. James, A. E. Lawe, and W. H. Hill (Hon. Secretary) were also present. The Treasurer's report showed a balance in hand on December 31, 1908, of 18*l*. 10*s*. 3*d*. The Secretary gave particulars of the business done during the year. The membership is sixty-seven—the highest yet attained. Both reports were adopted. Mr. F. T. Palmer, on behalf of the "Codex" Committee, submitted a letter to send to the Secretary. Mr.

J. P. James was elected a member. Mr. J. Fletcher was re-elected President and thanked for the able and courteous manner in which he had presided over the meetings. Messrs. W. Barron, Freshfield Reynolds, J. Ward, M. C. Mansbridge, and J. A. Thomas were elected Vice-Presidents, W. H. Hill Hon. Treasurer and Secretary (with thanks for his past attention to the duties), while a ballot for the committee resulted in Messrs. C. James, F. T. Palmer, H. B. Lloyd, J. J. Dolman, and H. B. Clark being elected, and Mr. A. Hill as auditor. Two guineas was voted to the Benevolent Fund.

Federation.—A meeting of the Executive of the Federation of Local Pharmaceutical Associations was held at 17 Bloomsbury Square, W.C., on Wednesday, February 3. Mr. W. L. Currie in the chair. Messrs. J. C. Pentney, C. J. Park, H. Antcliffe, and Edmund Jones (Hon. Secretary) were also present. The Treasurer presented the financial statement, which showed that subscriptions had not come in as well as was anticipated. The Secretary reported that some confusion seemed to exist among some of the affiliated associations in regard to the period when the annual subscriptions fell due, and after discussion it was decided that January 1 each year should be the date, and the Secretary was instructed to inform local associations accordingly. The subject of the Pharmaceutical Defence Union was next considered, and the executive felt that at present it could do nothing in the matter. A resolution from Three Towns Chemists' Association regarding reconstruction of the Federation was again considered. The Secretary said he had got few replies from associations about the matter. It was now decided to ask the Three Towns Association to submit a detailed scheme for submission to affiliated associations. The question of the Pharmaceutical Council taking immediate action to secure protection of the word "Pharmacy" as the sole right of individual pharmacists was mentioned, and it was stated that the matter would receive attention.

Edinburgh Sunday Duty.—A meeting of the Edinburgh District Chemists' Trade Association was held at 36 York Place, Edinburgh, on Friday evening, January 29. Mr. C. A. Macpherson (Chairman) presiding. Mr. A. Govan Reid was elected a member. Some conversation took place in reference to a resolution passed at Aberdeen in September with regard to the future of the Federation. The Secretary reminded the members of the resolution agreed to by this Association which was sent up to the Manchester Conference in favour of the amalgamation of the Federation with the B.P.C., but this was rejected in favour of the resolution which had been found not to work satisfactorily. He asked whether they should not consider the advisability of reviving their own resolution. Mr. Lyon, after making a statement on the present position of the question, moved that they delay further consideration of the whole subject till next meeting and, this having been seconded by Mr. John Robertson, was agreed to. Mr. Claude Henry then gave in a report as to what had been done by the committee to which was remitted the question of shorter hours of opening on Sundays. The eighteen members of the committee had visited the chemists in the various districts in the city to ascertain their feelings on the subject, and they found there was cordial agreement with the ideas put forth at the meeting that the Sunday hours are too long, and that they should open only twice, instead of three times, on that day. The only difference of opinion was regarding the portions of the day when they should open, some favouring morning and evening and others midday and evening. Two districts had already adopted closing during the midday hour and opening in the morning and at night. Practically the rest of the city were in favour of the opening in the afternoon and evening. The position of matters was that delegates from the various districts were to decide as to the actual date when the movement should be started, after the districts themselves have finally decided whether they will keep their shops closed in the morning or after midday. The Association will then supply bills to the chemists to be displayed intimating to the public the alteration in the Sunday hours. The committee hope that in a short time they will be able to arrange so that all parts of the city will participate in the shorter-hours movement. Mr. Lyon reported with regard to the proposals for the establishment of an apprentice employment bureau that the scheme had been sanctioned by the Education Department. It had already been before the School Management Committee of the Edinburgh School Board and approved of, and would likely be confirmed at the first meeting of the School Board. The meeting then considered in private the Poisons and Pharmacy Act, 1908, and the facilities for the supply of agricultural and horticultural poisons.

Society of Public Analysts and other Analytical Chemists. The annual meeting was held at Burlington House, Piccadilly, on Wednesday, February 3. Mr. R. R. Tatlock (President) in the chair. A very satisfactory balance-sheet was presented. Mr. Tatlock delivered his Presidential address, in the course of which he stated that the membership of the Society had increased from 338 to 350. He dealt briefly with questions affecting the position of public analyst, which had engaged the attention of the Council during the past year, including the security of tenure of appointment, superannuation, and the invitation to analysts to tender for public appointments. He also touched on standard limits for foods, and suggested that this might well form a subject for discussion at some future time. The following officers and members of Council were elected for the ensuing year:

President, R. R. Tatlock; Past-Presidents, M. A. Adams, Edward J. Bevan, Bernard Dyer, Thomas Fairley, W. W. Fisher, Otto Hehner, and J. Augustus Voelcker; Vice-Presidents, Bertram Blount, Cecil H. Cribb, and H. Droop Richmond; Hon. Treasurer, E. W. Voelcker; Hon. Secretaries, Alfred Chaston Chapman and P. A. Ellis Richards. Other members of Council: W. J. A. Butterfield, H. C. H. Candy, Harold G. Colman, Arthur E. Ekins, John Golding, A. R. Ling, L. Myddelton Nash, James Nimmo, Frederic W. Richardson, F. G. Ruddock, G. E. Scott-Smith, and Clarence A. Seyler.

Immediately following the annual meeting an ordinary meeting was held, at which there was only time for one paper, by Messrs. Bertram Blount and A. G. Levy, on "The Use of Quartz Combustion Tubes, especially for the Direct Determination of Carbon in Steel." A paper by Mr. J. H. Coste on "Commercial Samples of Monobrombenzene" was taken as read.

Agricultural and Horticultural Poisons.—The Halifax and District Chemists' Association met on Tuesday evening, February 2, Mr. H. C. Brierley (President) in the chair. There were also present Messrs. W. E. Smithies, J. W. Tiffany, W. R. Fielding, P. W. Swire, H. K. Woodward, B. C. Hodgson, C. Fielding, J. E. Binns, and R. V. Sutcliffe (Secretary). The following resolution was passed, and copies authorised to be sent to the Halifax Corporation and the West Riding County Council:

That the Halifax and District Chemists' Association, including chemists in Halifax, Elland, Sowerby Bridge, and Hebden Bridge, notify the various local authorities within their sphere of influence that the requirements of the Poisons and Pharmacy Act, 1908, are fully met by all the members of the Association, who are in a position to supply all poisons required for horticultural and agricultural uses. The Association respectfully beg to call attention to Clause 2 of the Act with reference to the granting of licences.

A circular was read from the Federation of West Riding Chemists' Associations asking for the opinion of the Halifax Association on the following questions:

1. What action, if any, should be taken by the Federation *re* granting of licences to horticultural dealers and others?
2. Should the Federation appoint a committee to draw up a formulary for distribution among medical men in the West Riding?
3. Should the Federation draw up a circular to be supplied in quantity to members, and by them distributed to the public, explaining the advantages of dealing with pharmacists, or on any other relative subject?
4. Should the Federation issue a monthly or quarterly journal?

The meeting deferred full consideration of the matter. The Secretary was instructed to send a resolution to the Halifax Corporation protesting against proposed increases in water-charges to shopkeepers.—At the meeting of the Northampton and District Chemists' Association held on February 2 the letter from the Pharmaceutical Society's Secretary also came up. Mr. G. Ingle (President) was in the chair, and others present were Mr. W. D. Mayger, Mr. W. Gatehouse, Mr. H. Rolfe, Mr. W. McKinnell, Mr. R. F. Wright, Mr. F. C. Ashford, Mr. E. Dennis, and Mr. Fred Cowdery (Hon. Secretary). Mr. F. C. Ashford moved that a communication be sent from the Association to the Town Council to the effect that they were prepared to supply poisons referred to in the Act at a fair price, and offered adequate facilities for obtaining the same. He was convinced that the Town Council would not allow unqualified persons to sell poisons if the chemists gave a guarantee that they would sell them at a fair price. Mr. Dennis seconded, and Mr. Mayger, Mr. Rolfe, and Mr. W. McKinnell also spoke in support. The motion was carried unanimously.

Chemists' Assistants' Association.

At the meeting at 73 Newman Street on January 28, a record attendance was present, despite the bad reg, to hear Dr. W. Harrison Martindale's paper on

Lactic-acid Bacilli Preparations,

of which an abstract appeared in our Winter Issue. Among those present were Mr. R. H. Brittain (in the chair), Mr. Campbell Williams, F.R.C.S., Messrs. F. H. Glew, F. Filmer de Morgan, S. G. Tweedy, F. W. Crossley Holland, E. Thompson, W. H. Rees, J. O. Pfinninger, and F. L. K. Loxley (Hon. Secretary). The Chairman, in opening the discussion, said the paper left little untold, while the numerous experiments must have involved a great expenditure of time and energy. He would like to know if the treatment is expensive, and if healthy persons should take

the treated milk. He was doubtful as to the position of the chemist in the new doctrine. Questions were also asked by Mr. Crossley Holland, Mr. Whatmough, and Mr. Wilkinson.

Mr. Campbell Williams expressed his faith in the treatment, and facetiously said they all had a chance of meeting again a century hence. The treatment with lactic or yeast ferments, benzo-naphthol, etc., is usually called the sterilisation of the bowels, but the term is a misnomer. It has a common basis—namely, the killing of the abnormal flora of the lower bowel, thus preventing putrefaction and presumably the formation of toxins. He cited an instance in which a soap enema produced a rash in a few moments, thus illustrating the rapidity with which the bowel can absorb irritant substances such as toxins. Mr. Williams mentioned three instances in which "Trilactine" treatment had warded off appendicitis. He showed how this was possible by two diagrams of the normal and inflated cæcum, and how in the latter case, owing to its blown-up condition from the gas produced by intestinal putrefaction, the valves at the apex of the vermiform appendix were separated and allowed the entrance of fæcal matter to set up the septic irritation of appendicitis. The "Trilactine" treatment in the above cases had superseded the abnormal organisms and prevented the necessity for an operation. He considered the value of the treatment is only partially due to the lactic acid of the curdled milk, and chiefly to the fact that the bacilli still go on producing the acid in the internal economy. Possibly gout, due to a specific organism, and rheumatism, ascribed to uric acid, as also stiff neck (fibrositis), and skin-diseases, both due to absorbed toxins, will disappear under the new treatment. Again, treatment with lactic acid would prevent erosion of the palate by *Leptothrix buccalis*, and as lactate of lead (from milk and liq. plumbi) he had found it cure a case of *Dermatitis repens* when other remedies failed. Regarding cheese, undoubtedly it was a most potential food, but its indigestibility militated greatly against it. To get the best value from the new treatment it should not be carried out in a perfunctory way likely to allow the entry of extraneous organisms; and as many people preferred to buy the treated milk, he considered the chemist, and not the dairyman, should be the one to prepare it.

Dr. Martindale, in replying to the questions put, said that healthy persons should certainly take the treated milk: it acts as a lubricant to the digestive tract. The expence is not great, being chiefly the trouble of making it. It is no business of the chemist to recommend the treatment, but to supply the treated milk, the preparations for making it, and advice as to how to do so. As a general principle, *B. Caucasicum* eventually kills off the other bacilli, while the predominating presence of *B. Hüppe* results in bitterness. Some of the tablet-preparations appear to rely solely upon *B. Caucasicum* for their activity, but such is not desirable. He could not advise as regarding relative values of liquid culture, tablets, and powders, but the liquid preparations obviously would not keep, as chalk is necessary to neutralise the acid, or otherwise the bacilli would kill themselves off. For titration the curdled milk is measured after mixing with a whisk. Boric acid in the milk has an inhibitive action on the bacilli, while the presence of formalin is even worse. In conclusion Dr. Martindale exhorted the company to try the treatment and eradicate the precocity and irascibility sometimes found even in a chemist, and, evidently with that view, samples of the treated milk were provided for them.

Liverpool Chemists' Association.

The annual meeting was held at the Royal Institution, Liverpool, on Thursday evening, January 28, the new President (Mr. T. S. Wokes) occupying the chair. There was a good attendance.

Election of Members.—The following gentlemen were elected members of the Association: Messrs. C. Whitfield Cooke, Gerald Lenton, T. M. Lloyd, J. H. Allan, Robert Stockport, and H. W. Thomas.

Miscellaneous.—Dr. Symes thought it might not be out of place now that the Poisons and Pharmacy Bill has become law, and will come into operation in April, to refer to it as an illustration of what can be obtained by what he might call "pegging away." In looking at various Bills which had been before the House he put his hands on one in 1903 containing a clause that no company should call themselves "chemists" unless there was a qualified director conducting the company, and friends in the House told them that this clause would never pass. Finally, after two or three failures, though the Pharmaceutical Society's Bill was without that clause, we were enabled to get an amendment put into the Government Bill to that effect. It is the result of extraordinary perseverance for years. Taking the Bill all round, Dr. Symes said, it would be found to be a great improvement on anything we had had so far. Mr. A. C. Abraham heartily supported Dr. Symes' remarks, and proposed that congratulations should be sent to the President of the Pharmaceutical Society in the following form:

> That the Liverpool Chemists' Association desires to express its appreciation of the great services of the President of the Pharmaceutical Society in connection with the passage of the Poisons and Pharmacy Act, 1908.

Mr. Prosper H. Marsden seconded, and the resolution was carried unanimously.

Treasurer's Report.—Mr. W. Wellings presented his annual statement, which showed that after all expenses had been paid there was a balance at the bank of 15*l.* 3*s.* There was a record list of subscriptions. The report was unanimously adopted.

Office-bearers.—The following gentlemen were unanimously elected for the next twelve months: President, Mr. T. S. Wokes; Vice-President, Mr. Harold Wyatt; Treasurer, Mr. W. Wellings; Secretary, Mr. G. V. C. Last.

Election of Council.—The ballot resulted in the following gentlemen forming the new Council: Messrs. A. C. Abraham, T. F. Abraham, A. Steen Barr, Harold Wyatt, P. H. Marsden, J. J. Smith, A. S. Buck, H. O. Dutton, and Dr. Symes, together with the President.

Alteration of Rules.—A long discussion ensued, but owing to the lateness of the hour the proposed amendments were deferred until the next meeting, as was also the Presidential address.

Portsmouth Pharmacists' Association.

Twenty-five chemists responded to the invitation of Mr. T. A. White, Ph.C., to meet him at the County Club, Kent Road, Southsea, on Wednesday, February 3, at 3.30 p.m., with the idea of forming a local association. The majority of those present were chemists in business in the borough of Portsmouth, and there were also at the meeting Messrs. Baker (Cosham), W. O. Smith (Fareham), and E. H. Smith (Gosport). It was an enthusiastic meeting. At the outset Mr. White expressed his pleasure at seeing such a large gathering of his colleagues, and moved that Mr. T. H. Cruse should take the chair. Mr. Cruse is the *doyen* of local pharmacists, and was well received on taking his seat at the head of the table. He commenced by saying that a local association had often been mooted, but till now it had not taken definite shape. Such an association might be useful in many ways and its objects wide-spreading. The first thing was to form the association, and next to proceed with the election of officers, draw up rules, and arrange time and place of meetings, etc.

Mr. T. Postlethwaite, Ph.C., proposed that an association be formed, to be called "The Portsmouth and District Pharmacists' Association." He pointed out that from the 1st of April next all registered chemists could style themselves pharmacists, and the adoption of this title would show they were up-to-date. Mr. R. Trist, Ph.C., seconded, and the motion was carried. Mr. W. A. Bell brought forward an amendment that they should include opticians and photographic dealers, but this met with little support and was dropped.

A ballot was then taken for twelve members of the committee, resulting in the election of the following: Messrs. Barlow, Bown, Cruse, Darling, Donaldson, Gorfett, Greswell, Postlethwaite, Rogers, Sparrow, Trist, and White. The following four gentlemen were chosen to represent the outlying districts on the committee: Messrs. Baker, Cosham; P. P. Davies, Havant; E. H. Smith, Gosport; and W. O. Smith, Fareham. Mr. T. H. Cruse, Ph.C., was elected President of the Association and Mr T. A. White Vice-President. Mr. Cruse thanked those present for the honour of being elected first president, and Mr.

T. A. White also replied. Mr. T. O. Barlow, Ph.C., was elected Hon. Secretary and Mr. S. Rogers Treasurer.

The annual subscription was the most difficult question to settle and entailed much lively argument. Finally it was decided to make it 10*s.* 6*d.*, with a reduced fee of 5*s.* for members not in business on their own account.

Subsequent meetings are to be held on the third Wednesday in each month at 3.30 P.M., and an instruction was given to the committee to find suitable quarters as central as possible.

Mr. T. A. White read a letter from the Secretary of the Pharmaceutical Society asking whether members present were prepared to supply all horticultural poisons, and on receiving affirmative reply he explained that this assurance would be serviceable to the Society in opposing any applicant for a licence under the new clause.

Votes of thanks to Mr. Cruse for presiding and to Mr. T. A. White for his hospitality brought the proceedings to a close.

Wolverhampton Chemists' Association.

A Meeting was held at the Star and Garter, Wolverhampton, on January 27. Mr. Warner (President) was in the chair, and among the good number present were Messrs. Phillips, Willcock, Dunn, Hunt, Coleman, Gibson, Goodwin, and Trott. The President moved a resolution of appreciation of the work of the President of the Pharmaceutical Society in connection with the Poisons and Pharmacy Act. Mr. A. T. Hall, Ph.C. (Messrs. Southall Bros. & Barclay's), read a paper entitled—

A Bit of Practical Botany.

Mr. Hall, in commencing, stated that, although the subject was not entirely pharmaceutical, the plants shown had grown from seed during the last five weeks in an atmosphere that reeked of pharmacy. To coax them to grow at that quick rate a home-made "propagator" was used. This arrangement was made from a soap-box, into the top of which was fitted another case, the wooden bottom of the latter being replaced by tin (from the lining of a peppermint-oil case). To maintain the seeds at a temperature of about 80° F. for several days before removing to the greenhouse, a 40-lb. castor-oil tin was fitted into the bottom of the lower case, a cut at each corner being made, and the turned-back edges served to hold the tin in the hole and also to conduct condensed vapour back to the lower portion, which acted as a boiler. The apparatus was mounted on legs made from a bottle-crate, and after water had been placed in the lower tin vessel it was heated by an oil-stove, which, however, was not home-made. The seeds were placed on coconut fibre laid on the tin bottom of the upper case, and the whole was covered with a sheet of glass. The lecturer, after enumerating the essential elements necessary to support plant-life, led up to the fixation of atmospheric nitrogen at ordinary temperatures by the various species of bacteria present in leguminous root-nodules. A comparison was then drawn between this fixation and the high temperatures required for the combination of oxygen and nitrogen by chemical means. Following came a short history of the discovery and isolation of these organisms, terminating in the ultimate success of Professor Bottomley, who obtained a preparation in powder form which contained the bacteria in an active form, and in which they remained so for two years. The lecturer showed sets of cultures inoculated with "Nitrobacterine," which demonstrated their superior conditions over uninoculated plants grown under otherwise exactly similar conditions, while lantern-slides showed other successes in that line. He said the composition of the compounds produced by the bacteria on which the plant feeds is not known, but dead and abnormally developed bacteroids seem to be eventually consumed by the plant. After a reference to similar symbiotic bacteria grown specifically for inoculating other plant species (roses, tomatoes, etc.), Mr. Hall concluded by saying that if success as a gardener or an agriculturist was desired, it was necessary to see that the required elements are supplied in proper quantity. For instance, plants excessively manured do not mature properly. Again, if good results are wanted when employing bacterial cultures, it is advisable to see that phosphates and potash are not deficient, and that any acidity in the soil is corrected by the addition of lime.

North-East Lancashire Association.

A Special General Meeting was held at the White Bull Hotel, Blackburn, on Wednesday evening, January 27, Mr. Wm. Holt (President) in the chair, the attendance including Messrs. R. L. Gifford, M. W. Tomlinson, E. Highton, J. Gifford, C. A. Critchley, W. H. Lomax (Darwen), W. Standen (Darwen), W. Holt, jun., and W. H. Grimshaw, and Alderman R. Shorrock (Darwen).

Poisons and Pharmacy Act.

Mr. Gifford made a statement regarding the position which he had taken when this measure was before Parliament, repeating the explanation embodied in his letter last week (*C. & D.*, January 30, p. 207). He now added that Mr. Herbert Samuel had stated in effect that the intention of the Legislature was that the title should be tied up with the individual chemist. He (Mr. Gifford) suggested the effect of this was to tie the title in such a way that companies could not say their businesses were managed by qualified pharmacists. Some people might stand aghast at this interpretation, but he believed in tackling their difficulties. If companies advertised that they had qualified men in charge of their shops, then they were taking up the position of pharmacists, and the word was not worth the paper on which it was written. This was a matter which required careful consideration, and it would need them to indicate their opinion respecting it. Mr. Gifford then referred to Mr. Snowden's service, and thought it would be proper to have an expression of appreciation from that Association. (Hear, hear.)

Mr. C. Critchley : They should have thrown out the Bill.

Mr. Gifford : That is a matter of opinion. We were faced with a dilemma. Things had been done that could not well be undone, and as practical men I think we took the right course. Mr. Gifford added that he received a letter from Mr. Snowden, after the Bill had been considered, to the following effect :

> I raised the question of the use of title, and was assured that the Bill restricts the use of the word "pharmaeist." I have a feeling that you have very little left, and your Society seem to accept the Bill more heartily than the company people. I suppose it is all over now.

The latter clause respecting the companies supported his (Mr. Gifford's) contention that no endeavour was made to make the title the effective thing it ought to be.

Mr. E. Highton (Divisional Secretary) said at the meeting at Preston, convened to consider this question, he distinctly asked if companies would be able to advertise that their branch shops were managed by qualified pharmacists, and Mr. Glyn-Jones replied in the affirmative. The Bill, of course, was not passed at that time.

Mr. Gifford : If I remember rightly, Mr. Glyn-Jones said he thought it was impossible to prevent them doing so.

Mr. W. H. Lomax proposed that a vote of thanks be passed to Mr. Snowden for his services and sent to him by the Secretary, with mention of the special interest he had taken regarding the views of the North-East Lancashire Association.

Mr. E. Highton seconded the motion, Mr. Standen supported it, and it was agreed to.

Mr. Lomax asked if no steps could be taken to place beyond all doubt the exclusive use of the title? A member replied that that remained for the Law Courts to decide. The President also paid a high tribute to Mr. Snowden, and the motion was carried. Mr. E. Highton then moved—

> That the North-East Lancashire Chemists' Association wish to show their appreciation of the invaluable services, based upon a conscientious principle, that we have received from our own representative on the Council, Mr. R. L. Gifford, along with his colleagues, Messrs. Campkin, Hagon, and Hobbs. We feel sure that had it not been for the almost, apparently, stubborn resistance at times that these gentlemen offered to the majority, we should never have known half so much of the intention of the Pharmaceutical Council as we do know.

Alderman R. Shorrock seconded, and the resolution was carried.

Mr. Gifford expressed his thanks for the vote.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C., February 4.

QUIET conditions have prevailed in the chemical and drug markets, with the bulk of the fluctuations more or less in buyers' favour. These include, among chemicals, such articles as cream of tartar, foreign citric acid, and copper sulphate. Bromides are firm, and prices are likely to be maintained at the existing level for some time. Opium is in limited inquiry, but steady. Quinine is quite inactive at last week's decline. Santonin maintains its previous values, but forward delivery may be had a little cheaper, and milk-sugar is firm. The tone of the Messina essences continues to reflect weakness, especially in lemon oil, prices of which are very irregular. Prospects for the new Norwegian cod-liver-oil fishing are very good. Ergot and hydrastis are easier, and at the spice auctions Jamaica ginger brought lower prices. Tragacanth has been in good demand at full rates. The movements have been as follows :

Higher	Easier	Lower
Balsam Peru	Castor oil	Cocoa-butter
Copaiba	Citric acid (foreign)	Cream of tartar
	Ergot	Turpentine
	Ginger (Jamaica)	
	Hydrastis	
	Resin	

Cablegrams.

SMYRNA, February 4 :—Sales of opium amounting to 100 cases have been made to the United States at from the equivalent of 13*s*. 6*d*. to 14*s*., being firm.

NEW YORK, February 4 :—Business in drugs is moderate. Opium is firm at $4.37 for druggists'. Menthol is lower at $2.15. Copaiba is firmer at 48c. per lb., and Peru balsam has advanced to $1.75. Jalap is irregular at 30c. per lb. Cascara sagrada is slow at 8½c., and peppermint oil is easy at $1.45 per lb.

Heavy Chemicals.

There is no appreciable change in the condition of the heavy chemical-market to be reported, though if anything there is probably a slightly heavier all round demand. The tone of prices continues to rule steady.

SULPHATE OF AMMONIA.—Both inquiry and business in this branch have been of a very quiet nature, and last quotations named have scarcely been maintained. Makers, however, are very well sold for forward, and consequently no appreciable drop can be looked for. There is not much doing for forward, but nominal figures are at a premium of 2*s*. 6*d*. to 5*s*. per ton. Beckton prompt and forward 11*l*. 17*s*. 6*d*., Beckton terms 11*l*. 10*s*., London 11*l*. 10*s*., Leith 11*l*. 15*s*., Liverpool 11*l*. 12*s*. 6*d*. to 11*l*. 13*s*. 9*d*., and Hull 11*l*. 11*s*. 3*d*. to 11*l*. 12*s*. 6*d*.

ACIDS show little fluctuation and are in fair average consumptive request. Nitric, 84° Tw., 16*l*. to 16*l*. 10*s*. per ton, and 80° Tw. 14*l*. 5*s*. to 15*l*. per ton. Sulphuric acid, 168° Tw., 60*s*. to 62*s*. 6*d*. per ton, and 150° Tw. 30*s*. to 32*s*. 6*d*. per ton, all naked. Hydrochloric acid 2*s*. 3*d*. to 2*s*. 6*d*. per bottle.

BENZOLS are distinctly on the quiet side just now, and there are no signs of any immediate improvement. Figures vary according to market from 5½*d*. to 6½*d*. per gal. for 90 per cent., and 6¾*d*. to 7¼*d*. per gal. for 50 per cent.

SULPHOCYANIDES continue to rule low, and with disappointing demand show no signs of improvement. Potassium 6⅞*d*. to 7*d*. per lb. Ammonium, 95 per cent., 6⅝*d*. to 6¾*d*. per lb., and barium, 95 per cent., 3¼*d*. to 3½*d*. per lb.

Manchester Chemical-market.

Manchester, February 3.

So far as export demand for heavy chemicals is concerned, the result has been disappointing. Bleaching-powder and caustic soda were reported in a shade better demand on home account. There has been quite a slump in sulphate of copper of fully 15*s*. per ton on the week, and best brands are obtainable at from 19*l*. 15*s*. to 20*l*. 5*s*. per ton Manchester. Caustic and carbonate of potash are steady. Brown acetate of lime is dull at about 5*l*. 15*s*. Acetic acid is a shade steadier. Citric acid is about 1*d*. to 1½*d*. per lb. lower, but other acids and cream of tartar show little change since our last. Arsenic slow at 14*l*. 5*s*. to 14*l*. 10*s*. per ton for white powdered. In glycerin there is little crude offering in the open market. Demand for refined continues good on spot, with prices well maintained. Coal-tar products are rather quiet. Benzols unchanged, but carbolic acid is fractionally lower for crystals. Sulphate of ammonia is easier at 11*l*. 2*s*. 6*d*. to 11*l*. 3*s*. 9*d*. on rails, Manchester. Foreign miscible naphtha is reported to be offering freely at low prices.

American Drug-market.

New York, January 26.

Business on the American drug-market has improved somewhat during the interval. Individual orders continue small, but the total volume of business is satisfactory. Prices have been well maintained and there are few changes to record. Opium continues firm, and peppermint oil is easier.

ALOES.—Curaçao in boxes has been in fairly good demand, and 7c. to 7½c. is asked. Cape is steady at 8½c.; other varieties are unaltered.

BLUE-FLAG is in short supply, and the local stock is well controlled; 17½c. has recently been paid.

CANADA BALSAM is neglected and easy at the lower price of $5.25 per gal. Oregon has been sold in a limited way at $1.

CASCARA SAGRADA continues dull and neglected at 8½c. Local supplies are quite heavy, and until these are used up the Coast combination can have little influence on the general market conditions.

COPAIBA.—Demand for C. & S. American has been good, and owing to a falling-off in receipts prices are firm at 47½c. to 50c. Para can be obtained at 50c. in some quarters, but 52½c. to 55c. is usually named.

HYDRASTIS has been in slow demand for some time, but no selling pressure has developed at primary sources, and offers below $1.80 have been rejected.

JALAP is now quoted at the lower range of 35c. to 40c., owing to competition and a lessened demand. It is doubtful, however, whether 7-per-cent. drug can be obtained at the lower figure.

MANDRAKE continues firm at 7¼c. and 8c. under fair inquiries. Stocks at primary markets are reported low.

MESSINA ESSENCES.—Owing to the prospects of freer supplies of lemon and orange in the near future, prices for these oils are entirely nominal. Bergamot continues firm, and the fancy price of $11 has been paid for moderate supplies.

OPIUM is in better demand owing to the continued strong advices from primary sources. The case price has been advanced in most quarters to $4.37½, and higher values are expected.

PEPPERMINT OIL.—American is attracting very little attention, and the weaker country holders are anxious to dispose of their stocks. On spot $1.40 can probably be done, although $1.45 is usually quoted.

SERPENTARY is in good demand and firm at 46c. to 50c.

SPEARMINT OIL continues dull. Spot quotations range from $2.60 to $2.70, while $2.20 can be done in the country.

Continental Drug and Chemical Markets.

AMMON. CARB.—The rise which took place at the end of last year has left large stocks in second-hands, and as a result there are offers on the market below English makers' quotations. There is, therefore, cause for doubting the steadiness of this item, and caution must be exercised.

CITRIC ACID.—The keen demand which was perceptible in the first half of January has diminished remarkably, owing to the possibility of obtaining raw material from Sicily, and the reserve of purchasers has caused lower quotations of about 10m. per 100 kilos.

ERGOT.—The Hamburg market is firm, and prices, especially as regards Russian goods, may even advance; business has been done at 280m. per 100 kilos. from first hands: Spanish is to be had at 277m. on the spot and for prompt shipment. Very little new crop is offered, and should a fair demand spring up from the United States, higher prices are anticipated.

LYCOPODIUM.—This item, which has been so long neglected in Hamburg, does not yet appear to have reached its lowest quotation owing to the large stocks still on hand. Double sifted quality in cases is quoted ex warehouse Hamburg at 3m., and sacks at 2.90m. per kilo. net cash.

Potash Chlorate.—According to the conditions fixed last year for 1909, this item has been left unchanged by the convention. A change has, however, been lately noted—*i.e.*, the engagement not to sell to match manufacturers has been removed.

Quillaia.—Owing to some approaching deliveries the prices are somewhat lower in Hamburg as regards prompt. On the other hand, for later deliveries the higher prices of 64m. to 65m. per 100 kilos. c.i.f. is asked. According to recent despatches this year's crops will be about two-thirds of a normal yield, and as the larger proportion of it is in firm hands, no eventual lowering of prices can be counted upon.

Santonin.—The lack of supplies, which has been felt for some time past, has now become more perceptible, as the small stocks in second hands are practically exhausted; supplies only come to hand in small quantities at long intervals, and to-day the value is from 25m. to 26m. per kilo.

Tin Oxide.—Large offers of the metal have brought about an increased disposition to realise, and owing to this tin oxide has been reduced to 275m. to 277m. per 100 kilos.

Acid, Citric, is extremely quiet at 1*s.* 9*d.* for English, at 1*s.* 7½*d.* to 1*s.* 8*d.* from second-hands, and 1*s.* 7*d.* for foreign.

Acid, Tartaric, is steady at 10¾*d.* for English and at from 10¼*d.* to 10⅜*d.* for foreign.

Aloes.—The *Walmer Castle* has brought 45 cases from Mossel Bay and 24 cases from Algoa Bay; 18 cases Curaçao have also arrived from New York.

Asafœtida.—A few lots have recently arrived from the Persian Gulf, and will be offered next week.

Benzoin.—The arrivals comprise 41 cases Palembang and about 60 cases Sumatra. There has been a fair demand privately for both these descriptions.

Bromides.—A more definite shape has been given to the market for bromides, inasmuch as the makers of bromine preparations (as the result of a recent meeting of bromine-makers) are still able to obtain their supplies of raw material on the 10¾*d.* basis for potassium, thus ensuring that the price of bromides will be unchanged for some time. Makers, however, are not booking contracts at this figure. In second hands sales have been made at slightly below the official price, and further lots could be had at 10¼*d.*, but holders are mostly indifferent sellers at the moment.

Buchu.—The s.s. *Walmer Castle* has brought 21 packages.

Camphor (Crude).—Quiet. Spot sales of China crude have been made at 132*s.* 6*d.*, and for January-March shipment 125*s.* c.i.f. has been paid.

Cantharides.—New Russian are quoted at 2*s.* 3½*d.* per lb. c.i.f.

Cascara Sagrada.—The monthly London drug statistics show the stocks of this drug (578 tons) for the first time. This stock of course represents the returns from the public wharves only, and does not include that in manufacturers' hands. Prices are unaltered at from 37*s.* 6*d.* to 45*s.*, but there is little doing.

Cassia Vera.—At auction 20 bags were offered and sold, including fair quills at from 31*s.* to 32*s.*, and ordinary part thin and dark at 15*s.* per cwt.; 100 bales of good *broken cassia* were bought in at 45*s.*

Chillies.—At auction 104 bales of Zanzibar were offered, and a few sold at 35*s.* for mixed Mombasa. Fair Japanese were bought in at 45*s.* and fine Nyasaland at 50*s.*

Cinchona.—The auction to be held at Amsterdam on February 25 will consist of 8,258 packages, comprising 7,189 Ledgeriana and hybrid, 592 cases and 443 bags Succirubra, and 34 cases Sumatra.

Cloves.—At auction 135 bales of Zanzibar were bought in at from 5¼*d.* to 5¼*d.* for ordinary to fair, and 12 cases of fair picked Penang were bought in at 1*s.* Privately Zanzibar are steady, but business has been slow. The sales include January-March and February-April shipment at 4 11/16*d.*, and March-May at 4⅜*d.* c.i.f. d/w, also June-August delivery at 5 1/32*d.* to 5 3/32*d.* The *Virgo* has brought 3,750 bales from Hamburg. On the spot sales of fair Zanzibar have been made at 5*d.* per lb.

Cocoa Butter.—At auction in London 60 tons Cadbury's A sold at from 11*d.* to 11⅞*d.*, the average price being 11⅝*d.*, or 1 3/16*d.* lower: 15 tons of Payne's sold at 11⅜*d.*, and of 20 tons Lipton's 9 sold at 11¼*d.* per lb.

Coca-leaves.—At the Amsterdam auction on February 25, 167 packages Java will be offered.

Copaiba.—From New York 2*s.* 1*d.* per lb. c.i.f. is quoted for Maracaibo.

Copper Sulphate, after being quoted at lower prices early in the week, closes steadier at 21*l.* for Anchor, and at from 19*l.* 5*s.* to 20*l.* for Liverpool brands, up to April delivery.

Cream of Tartar is about 1*s.* per cwt. easier, 98-per-cent. powder offering at 73*s.* 6*d.* and 95-per-cent. at 72*s.* per cwt.

Dragon's-blood.—In fair inquiry, the sales including fine reboiled Singapore lump at 11*l.* per cwt. Stocks of this quality are now in much smaller compass.

Ergot is a shade easier, Russian offering for shipment at 1*s.* 3½*d.* and Spanish at 1*s.* 4*d.* c.i.f. On the spot sound Russian has been sold at from 1*s.* 3*d.* to 1*s.* 3½*d.*, but no more is offered at these figures.

Galls.—Persian are quiet at 65*s.* for blue, 47*s.* 6*d.* for green, and 42*s.* 6*d.* for white; some sales of near-at-hand have been made, to arrive at 56*s.* c.i.f. London, and for shipment sellers quote 58*s.* c.i.f. China on the spot are quoted 47*s.* 6*d.* and 44*s.* c.i.f.

Gambier.—Small sales of cubes have been made at 34*s.* spot.

Gamboge.—At the recent easier prices some 40 cases, principally Siam, have been disposed of during the past fortnight, the best piles of slightly blocky Siam pipe realising 14*l.* 10*s.* per cwt. Forty cases Saigon pipe of rough quality have arrived.

Ginger.—Quiet. At auction 125 bags of fair Cochin in washed rough were bought in at 40*s.* Privately several hundred bags of washed Cochin have been sold at 35*s.*, at which price there are buyers. Of Jamaica at auction 82 barrels were offered and sold at rather lower prices, including fine bright at 63*s.* and good bright at 55*s.* to 60*s.*

Gum Arabic.—Soudan sorts are extremely quiet at 28*s.* per cwt. c.i.f., and on the spot sales are small at from 30*s.* to 35*s.* East Indian gums are also slow, with sellers of Ghatti at 31*s.* 6*d.* for No. 1 and 18*s.* 6*d.* c.i.f. for No. 2. Senegal (Bas de Fleuve) is unaltered at 30*s.* f.o.b. Bordeaux. Spot supplies of so-called Bushire insoluble gum are small, with ordinary sorts offering at up to 15*s.* 6*d.*, and fair picked amber at 23*s.*

Hydrastis is slightly easier at from 7*s.* 9*d.* to 8*s.* per lb. c.i.f.

Ipecacuanha.—There has been a little inquiry between the auctions, with small sales at steady values. Matto Grosso is quoted 5*s.* to 5*s.* 2*d.* for ordinary thin to good bright, Minas at 4*s.* 10*d.* to 5*s.*, and Cartagena at from 4*s.* 3*d.* to 4*s.* 6*d.* as to quality. Seven packages of Cartagena have arrived.

Jalap.—Some 25 bags of high-testing root recently arrived on the Hamburg market were promptly sold to German makers at very full prices.

Kamala.—Small sales have been made at 10*d.* per lb.

Lycopodium.—Russian of double-sifted quality is quoted at 1*s.* 4¾*d.* per lb. net, c.i.f.

Milk-sugar is firm at 45*s.* per cwt. for any good brand of B.P. Powder.

Musk.—Tonquin is quoted at from 68*s.* to 70*s.* per oz. for good to fine blue skin, Pile 1, with small sales at the inside figure.

Oil, Anise (Star).—Sellers on the spot quote 4*s.* 6*d.*, at which a small business has been done.

Oil, Bergamot.—Prices vary from 25*s.* to 30*s.* per lb. spot, but the business is quite of a hand-to-mouth character.

Oil, Cassia, is unaltered at 4*s.* 8*d.* for 80 to 85 per cent. c.a., and 4*s.* 5*d.* for 70 to 75 per cent. c.a.; to arrive, 80 to 85 per cent. is quoted 4*s.* 1*d.*, and 70 to 75 per cent. at 3*s.* 10½*d.* c.i.f. terms.

Oil, Castor, is easier. Hull make is quoted 23*l.* 10*s.* for first-pressing, and 23*l.* 15*s.* per ton in barrels for February-June delivery, ex wharf, London.

Oil, Citronella.—Ceylon is quoted 1*s.* 1*d.* to 1*s.* 1½*d.* per lb. spot.

Oil, Cod-liver.—Our Bergen correspondent writes that the prospects for the new fishing are still of the best, but as few fishermen have arrived at Lofoten, little has been done until to-day (February 1). So far the catch of cod has been one and a quarter millions, representing about 1,250 barrels of oil, as against about two millions of cod and 2,100 barrels of oil at the corresponding period of last year. Very little business is being done at the moment, and buyers are holding off. To-day's quotations for 1908 non-congealing Lofoten oil are from 62*s.* to 63*s.* per barrel c.i.f. The exports from Bergen from January 1 amount to 1,298 barrels, against 631 barrels at the corresponding period last year. In London, new Norwegian oil for February-March shipment is offered at 64*s.* per barrel, c.i.f. terms, which is considered a low figure for the opening of the season.

Oil, Lemon.—Quiet. Prices continue very irregular, good brands offering at from 5*s.* 6*d.* to 6*s.* per lb. spot, and for March-April shipment quotations vary from 3*s.* 6*d.* to 3*s.* 10*d.* c.i.f., but transactions are few. According to advices from Sicily it is stated that very little new lemon oil had been pressed at the time of the earthquake and that the bulk of the old crop was in Palermo.

Oil, Turpentine.—The market has declined about 9*d.* on the week, and closes at 30*s.* per cwt. for American on the spot.

Olibanum.—Small sales of good drop have been made at 40*s.*, ordinary drop at 26*s.*, and common siftings at 13*s.* 6*d.* per cwt.

Opium.—The London market is quiet, but values are steady at from 14*s.* to 14*s.* 6*d.* per lb. for good Smyrna druggists', 12*s.* 6*d.* for seconds, 14*s.* to 14*s.* 3*d.* for Malatia, and 15*s.* 6*d.* to 17*s.* 6*d.* for Malatia. Persian opium is firm but quiet at 14*s.* 6*d.*, which price has been paid for some parcels near at hand.

A Smyrna correspondent writes that the sales for the week ending January 22 amount to 88 cases, of which 83 were for the U.S.A., at from 12*s.* 9*d.* to 13*s.* 9*d.* for choice and 12*s.* to 12*s.* 2*d.* c.i.f. for secondary qualities. Buyers and sellers have made mutual concessions which have facilitated business, but holders have lost heavily, and it would not be surprising if a brisk change of temperature were to stiffen the market. The arrivals amount to 1,999 cases, against 1,347 cases at the same time last year. After reporting the above business, another correspondent adds that the market closes with a strengthening tendency, and as the demand continues it is probable prices will be advanced before another week or ten days. Weather conditions are more or less favourable for the sowings.

Pepper.—At auction 126 bags of Ceylon were bought in at $3\frac{3}{4}d.$ for good sifted, and at $3\frac{5}{8}d.$ for fair greyish. Privately fair Singapore is quoted on the spot at $3\frac{5}{16}d.$, and to arrive the sales include February-April shipment at $3\frac{3}{16}d.$ and June-August at $3\frac{1}{8}d.$ c.i.f. d/w. At auction *white* pepper was steady, with small sales of fair Singapore at $4\frac{7}{8}d.$ Privately the sales include spot at $4\frac{15}{16}d.$, and to arrive sellers quote January-March shipment at $4\frac{25}{32}d.$ d/w.

Pimento.—Quiet, but steady. At auction 75 bags were offered and a few sold at 2*d.* for fair; privately sellers quote February-March shipment at 19*s.* c.i.f.

Podophyllum-root.—For small parcels on the spot 37*s.* 6*d.* has been paid, and for shipment 36*s.* 6*d.* c.i.f. is quoted.

Quinine.—There is a continued absence of demand, and the prices in second-hands are nominal at from 7*d.* to $7\frac{1}{4}d.$ for the usual standard brands of German sulphate and $6\frac{3}{4}d.$ for Java.

The landings of quinine in London during January amounted to 30,000 oz. and the deliveries to 106,784 oz., leaving a stock on January 31 of 3,274,800 oz., against 3,476.224 oz. in 1908.

At the auction held by the Amsterdam Quinine Works on January 29, 1,417½ kilos. Ed. II. sulphate were offered and sold at an average price of 10.87½fl. per kilo., against 11.06½fl. per kilo at the previous auction. The next sale takes place on Tuesday, February 16, and will consist of 1,417½ kilos. Ed. II.

Saffron is steady at 32*s.* 6*d.* for finest B.P. quality.

Sarsaparilla.—There have been no arrivals of grey Lima or native Jamaica. Fifty bales of Mexican have arrived from New York.

Senna.—Some 420 bales Tinnevelly will be brought forward at the sale next week.

Shellac.—Although the market has been dull throughout, spot prices are unaltered on the basis of 74*s.* to 75*s.* for fair free TN, and for good to fine Orange marks values range from 97*s.* 6*d.* to 120*s.* The sales for arrival include TN for February-March shipment at 70*s.* c.i.f., and A. C. Garnet for February-March is quoted 66*s.* c.i.f., a decline of about 3*s.* Futures have been inactive, with sales of March at 71*s.* and May at 75*s.*

Tonka Beans.—Eighteen cases have arrived from Para per *Iquitos*.

Tragacanth has been in good demand at full prices, the chief sales including Persian descriptions at from 75*s.* to 120*s.*, and inferior fourths at 8*l.* 10*s.* Fair sales of the finer Bagdad grades have also been at slightly easier prices for seconds, but thirds and fourths were well maintained. Over a thousand packages are due per *Guildhall*, when a further considerable business is anticipated.

Valerian.—Belgian is quoted at from 20*s.* 6*d.* to 22*s.* 6*d.* per cwt. c.i.f.

Wax, Japan.—Fair arrivals are now taking place; spot is quiet at 52*s.* to 53*s.*, and for shipment the sales include near at hand at 47*s.* 9*d.* c.i.f.

Australian Honey.

Mr. R. Beuhne, the President of the Victorian Apiarists' Association, visited England last year for the purpose of inquiring into the prospects of establishing an export trade in Victorian honey, and, according to his report in the Journal of the Department of Agriculture (Victoria), he found that the main reason for its poor market in this country was its alleged eucalyptus flavour. "It cannot be doubted any longer," says Mr. Beuhne, "that the honey gathered from our eucalypts possesses a distinct flavour, not noticeable to Australians, who are used to it, but very evident to people in other countries. This flavour is not necessarily that of the essential oil of the eucalypt, and the term eucalyptus flavour does not imply more than a description of the characteristics of honey gathered from these trees." Mr. Beuhne proceeds: "Honey without strong aroma could be exported whenever production exceeds local consumption, and would compete on even terms in European markets with honey from other countries. . . . The cultivation of special plants for honey-production is admittedly so impracticable as to deserve no further notice. It therefore remains to be seen whether the elimination of the strong aroma of our honey is possible and commercially practicable. There is no doubt that much of it disappears after a time. The samples I carried, which had been opened so many times, were much milder in the end. Mr. W. F. Reid, of Addlestone, expressed the opinion that the strong aroma could be effectually and inexpensively removed without keeping the honey for the length of time which might be necessary otherwise. The removal of the objectionable aroma would in a great measure overcome the difficulties of opening an export trade, and I think experiments highly desirable."

Sicilian Notes.

Among the firms who have elected to remain at Messina is that of Messrs. Samuel Francesco de Pasquale & Fratelli, who point out, in a letter to us dated January 24, that several other firms also intend to re-open in Messina. Shipments have already taken place from that port, and several vessels are due to leave for London in a few days, including a new steamer of the G.S.N. Co.—Messrs. Padgett & Co., 8 Martin's Lane, Cannon Street, E.C., inform us that they have received a cable from Dr. Bosurgi stating that his firm (W. Sanderson & Sons) intend to make every sacrifice in order to execute their contracts, and that they are now reorganising their business at Catania (see also *C. & D.*, January 16, p. 82, and January 23, p. 114).—Messrs. Eugenio Macajone & Co. (late of Messina) inform us on January 24 that they have now settled in Catania, and they hope to be able to execute orders for lemon and orange oils in a few days. As they intend to carry out all contracts made previous to the disaster, they would be pleased to hear from firms with whom they have had transactions, as they have lost all books and correspondence. Although the firm's financial loss was not heavy, Mr. Eugenio Macajone lost his wife (a young lady from West Norwood, London) and his only daughter, aged four.

Italian Liquorice.

Dealing with the agriculture of Southern Italy, the late Consul-General E. Neville-Rolfe, one of the most able of British Consular officers, states that the favourite quality in the British market is that grown in Calabria, the three principal brands being Solazzi, Pignatelli, and Gerace. As a commercial asset liquorice is much less important than it was even

ten years ago. At that date British merchants would buy the whole produce of an estate and ship it in bulk to London, whereas it is now generally exported in consignments of a few cases at a time. After relating a few well-known facts regarding the manufacture of stick-liquorice and its uses, the Consul states that it is grown chiefly on land of small value for other crops. The land having been ploughed or dug, as the case may be, is planted with small pieces of the root, this being preferable to the use of seed. This produces a green crop, growing to the height of some 10 in. This is cut off and used for feeding cattle, the roots being left in the ground and dug up in the third year, when they are dealt with for the market.

Chilian Nitrate.

The Chilian Government's Inspector of Nitrate Propaganda, in a recent report on the Chilian nitrate fields, states that he could from the first have contradicted the rumours to the effect that the beds would be exhausted in the near future, for in 1892 he made an estimate of the land which had been explored and sampled up to date, arriving at a minimum total of 140 million tons. After giving in detail the present extent of the beds, he adds: "We can assure the nitrate industry of a minimum stock of 220 million tons. No allowance whatever is made for the unexplored lands in the nitrate region, so that the farmer may rest assured that there is no fear of the supply failing for a century at least."

German Spirit in 1908.

According to the annual report which has been issued by Alexi Hirsch, of Magdeburg, the business transacted by the spirit-distillers and cleaning establishments during the past year was generally satisfactory, whereas the smaller industries and retailers have had to suffer much on account of high prices. These latter have been unable to increase their turnover for this reason. In addition, the proposed monopoly has been a source of much uneasiness to distillers, who claim that their interests will suffer, and it is not at all clear how the methylators are to obtain cheap spirit, which they must have if they are not to be hampered. According to the official statistics, the last potato-crop in Germany amounted to 46,342,226 tons, against 45,538,299 tons in 1907, the former crop proving to be one of the best during the past ten years. The amount of spirit produced in 1908 was 4,014,571 hect., as compared with 3,836,614 hect. in 1907. The consumption of drinking-spirit amounted to 2,370,560 hect., as compared with 2,439,720 hect. in the previous year; and the consumption of duty-free spirit amounted to 1,593,218 hect. (of which 1,128,231 hect. was for methylation), against 1,336,484 hect. (of which 864,787 hect. was for methylation), in the previous year; the amount exported was 17,363 hect., against 215,619 hect. in 1907. The rebate (*Abschlagspreis*) of 48m., which the Spiritus-Centrale had allowed up to October 24, 1908, had to be reduced to 44m., in view of the new campaign, whereby the potato-distillers derive a good profit, but the molasses-distillers, even with full rebate, work at a loss unless they have secured their raw material cheaply beforehand. The spirit-industry began the new year with much uneasiness on account of the proposed alterations in taxation, which may or may not benefit the Imperial finances.

Mr. R. Winfrey, M.P., Ph.C., is still strong on the smallholder question. He addressed a meeting of the Swaffham Co-operative Society on the subject at a public tea on January 21.

Among the items of unclaimed property left on the Great Eastern Railway, and sold last week, were two casks of Epsom salt, 65 pairs of spectacles and pince-nez, a case of 11 forceps, and a pair of apothecary scales.

The Reports of the Wellcome Research Laboratories at the Gordon Memorial College, Khartoum.—The third Report (1908) gives the latest work of the laboratories, and includes papers in continuance of the work of the first (1904) and second Reports (1906). It is a bulky volume of 477 pages (11 × 7½) with twenty-eight splendid coloured plates and over three hundred other illustrations. To indicate briefly the contents the following are the main subjects treated: Trypanosomiasis and Kala-azar in the Anglo-Egyptian; The Healing Art as practised by Dervishes; Notes on Ethnographical specimens; Reports (1) of Travelling Pathologist and Protozoologist, (2) on Economic Entomology, (3) Physical Characters of some Nilotic Negroid Tribes, (4) of the Chemical Section. The last-named is the most interesting to pharmacists, and, although relegated to the end of the volume, deals fully and explicitly with the collection, biology, and chemistry of Sudan gums and the examination of several fats and oils. Reports are also given in this section of many analyses of well-waters and Nile water. A supplement to the Report is also issued. The two new volumes are sold by Messrs. Baillière, Tindall & Cox, 8 Henrietta Street, Covent Garden, London, W.C., at 1*l.* 1*s.* and 10*s.* 6*d.* respectively.

Correspondence

TO CORRESPONDENTS.—Please write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with the arguments or approval of the statements therein. If queries are submitted, each should be written on a separate piece of paper. We do not reply to queries by post, and can only answer on subjects presumably of interest to our readers generally. Letters received after the early posts on Wednesday cannot as a rule be dealt with in the current week's issue.

BUSINESS INFORMATION.—We have very full records of the makers or agents for articles and products connected with the chemical and drug trades, and supply information respecting them by post to inquirers. Inquiries regarding any articles which cannot be traced in this manner are inserted under "Information Wanted."

"Pharmaceutical Affairs in Ireland."

Sir,—Referring to a statement in Mr. Busby's letter in your issue of January 30 to the effect that "the practice of the Council has not been uniform in accepting or rejecting apprentices' certificates from companies," I beg to state that, so far as I am aware or can ascertain from the files in the Society's office, the Pharmaceutical Society has not at any time since the decision in the case he refers to knowingly accepted certificates from limited companies, except those whose ordinary shareholders are all qualified. As Mr. Busby now publicly makes this serious charge against the Council of the Society, I must ask him to produce evidence to substantiate his charge. Yours, etc.,

J. Smith,
President Pharmaceutical Society, Ireland.

67 Lower Mount Street, Dublin, February 2.

Sir,—Anyone reading Sir Thomas Robinson's letter in your issue of January 23 will guess that there is a missing link. He says, "I append copies of the only letter and only telegram sent by me in the matter," but he does not say why, after giving his consent, he wired to withdraw same. He forgot to tell your readers that at the request of the President our solicitor called on Hayes, Conyngham & Robinson (as well as on other limited companies in Dublin), and had an interview with Sir Thomas Robinson and Mr. Conyngham, who required an undertaking from our solicitor, on behalf of the Society, that if the articles of association of Hayes, Conyngham & Robinson are altered, so long as there is a qualified pharmaceutical chemist on their board, and who will be the superintendent within the meaning of the said clause, the Council will accept certificates signed by him. This the President and I could not agree to, as we did not see why we should give their company any special advantages over other limited companies: hence the wire withdrawing the consent. Our great difficulty in dealing with the proposed clause for Ireland was that so many had their own little axe to grind. The apprenticeship question was only sprung on us at the last moment, and has more difficulties for this country than appears at first sight.

Yours faithfully,

Dublin, January 2. W. F. Wells.

Irish Druggists and Dispensing.

Sir,—Your correspondent "Pharmacist" considers druggists are not competent to fill prescriptions because one of them sent to him for natrium carbonate. He does not prove that the druggist was on the premises or saw the order. It may have been an apprentice or junior assistant whose ignorance was at fault. He considers that druggists should qualify. In this most druggists agree. It is what they have asked for, but the Pharmaceutical Society says they must go and serve two years to a pharmaceutical chemist before they are allowed to present themselves for examination. I sent the following order to two pharmaceutical chemists. One would have supplied it at double the regular retail prices, the second evidently did not know any of the items: Essence hedeoma, tinct. secale, menyanthus trifoliata, and tinct. stercus

diaboli. Natrium carbonate is an obsolete term, but three of these are in a modern trade price-list.

Yours,

Ignorant Druggist. (197/39.)

Sir,—I think "Pharmacist" must not be cognisant of the actual state of affairs, or he would be aware that in qualification lies the crux of the whole matter. That is exactly the grievance which the druggists complain of, and from which they seek relief. The Pharmaceutical Society, by introducing after the 1875 Act an illegal regulation requiring two years' service with a pharmaceutical chemist, contrary to the explicit wording of Section 21 (by which illegal regulation they debarred myself from examination previous to the 1890 Act), and also by introducing a regulation in reference to apprentices and the Preliminary examination, which I, in conjunction with many pharmaceutical chemists (one of them a late President of the Society), consider illegal—these, in conjunction with other regulations by the Society, have built up so many barriers that it has become practically impossible for a druggist or his apprentices to get qualified at all. This was evidently the intention of the Pharmaceutical Society, so as to make the qualification of pharmaceutical chemist a close borough. Again, "Pharmacist" asks, What training have druggists in compounding? I will simply reply by asking him, What training do the apprentices of the majority of pharmaceutical chemists get at present in compounding? Practically none. Many I know are not dispensing or compounding any prescriptions worth the naming to enable their apprentices to obtain the training referred to, yet they are eligible. "Pharmacist" also cites two cases as illustrations in reference to druggists. I might instance a dozen equally reflecting upon the skill and knowledge of pharmaceutical chemists, but no good purpose would be served by so doing.

Yours faithfully,

Belfast. James D. Carse.

Not "Delightfully Sarcastic."

Sir,—It is most amusing to find Mr. Gifford posing not only as an expositor but as the great champion of a Bill which he did his level little best to prevent becoming law. The exclusion by the Editor of the *C. & D.* of personalities contained in his letter respecting myself should be a source of gratitude on his part. It also relieves me of the necessity of replying to that portion for which I have little time or taste. But as it has appeared elsewhere I must express my surprise that by any stretch of imagination virulent statements devoid of a particle of truth, which can only emanate from a disordered and heated imagination, can be called "delightfully sarcastic." Mr. Gifford, with his usual tactics, avoids the direct issue—*i.e.*, when he charged President Rymer Young with giving away our titles, did he do so in ignorance or was it for the purpose of throwing dust in the eyes of others? That is a simple straight question. Let him answer without equivocation. It is perfectly useless to put up the figure of Mr. Snowden to hide the confusion on his blushing face caused by his past behaviour. 'Tis true that when Mr. Gifford and Mr. Snowden were confronted Mr. Idris had little trouble in convincing Mr. Snowden that he had been misled by Mr. Gifford; but that is to the credit of Mr. Idris, not Mr. Gifford. The question put by Mr. Snowden over which Mr. Gifford crows so loudly in his letter certainly did no harm, but it made no difference in the wording of the Act. Try as he may, the fact remains that Mr. Gifford, in the Council or out, was, in the matter of the Poisons and Pharmacy Bill, a bother, and his position as a member of the Council gave him importance which misled others.

Yours truly,

Dalston, February 2. J. C. Pentney.

Registration without Examination.

Sir,—In your note of January 30 under the letter of Jay Mack you state that the M.D. Durham is no precedent for allowing the registration of persons without examination, as the degree is only granted to registered medical practitioners. This is true so far, and it was merely quoted as an instance of what one of our conservative British Universities has done, and it was suggested that the Pharmaceutical Council should register Army dispensers and apothecaries' assistants on similar lines. On reflection I am inclined to think these suggestions were too stringent, and as you require a precedent for any innovation in pharmacy, I would suggest that the precedent of the Medical Act of 1858 be followed. This directed that persons who, on or before October 1, 1858, held appointments as surgeons or assistant surgeons to the Army, Navy, or Militia, or in the service of the East India Company, or were acting on or before this date as surgeons in the public service, or in the service of any charitable institution, were entitled to be registered on the production of evidence to the General Medical Council that there was sufficient ground for directing such registration to be made. Taking this as a precedent, the Pharmaceutical Council's by-law might provide for the registration of persons who, on or before April 1, 1909, held Colonial diplomas, or were qualified as military dispensers or certified assistants to apothecaries, who produced evidence satisfactory to the Council that they were of sufficient skill and knowledge to be so registered. I was sorry to find that your usually well-informed paper, in reply to "Army Dispenser" (190/31), had committed an error in explaining Section 4. I have carefully looked into the matter, but cannot find that the Pharmaceutical Council has to draft by-laws respecting a curriculum and the qualifying examination as a preliminary to the registration of Army dispensers and apothecaries' assistants. I quite admit that all these are optional and at the discretion of the Council, who will, no doubt, give the Act a fair trial and endeavour to carry it out with strict impartiality. With regard to those who pass the Army or Apothecaries' examination after April 1, the Council could easily arrange that those who require registration under Section 4 (*b*) should show that they had fulfilled the conditions prescribed by Section 4 (*a*), (*c*), and thus be in agreement with your reply. Meanwhile, as I said before, each case should be accepted or rejected on its merits.

East Anglian. (197/62.)

[We refer our correspondent to the article beginning on p. 226 of this issue. In our reply to "Army Dispenser" we said that "as a preliminary" to registration of Army compounders and apothecaries' assistants, "the Council has to draft by-laws respecting a curriculum and the qualifying examination." We had in mind what was proposed when it was decided to seek powers for instituting reciprocity; not that the Act compels the Council to make that a precedent condition.—Editor *C. & D.*]

Branch Shops.

Sir,—I have read the correspondence in the *C. & D.* re chemists' branch shops. I do not altogether agree with you. I have one in Bolton which is a very mixed business. I took it over for family reasons. A good deal of paint is mixed and sold. I cannot get a qualified man to manage it. Now, I cannot see why I cannot still continue to work that branch with an unqualified man as a drug-store under another name. He does not sell poisons at present, and does not break the Pharmacy Act. Now, I can sell it to my manager; he can run it exactly as it is now, keep the same drugs, etc., yet, according to you, I cannot. It looks ridiculous. Here I can sell to my man, he can run it exactly as before, yet you say I cannot even run it as a drug-store.

Yours truly,

Cytas. (197/66.)

[Like many more, our correspondent has not yet appreciated the fact that Section 3 *penalises the qualified, but not the unqualified, man.* We quote the necessary words of the section which show this:

> Any person who, being a duly registered . . . chemist and druggist, carries on the business of chemist and druggist *shall*, unless in every premises where the business is carried on the business is bona fide conducted by himself or some other duly registered . . . chemist and druggist, . . . and unless the name and certificate of qualification of the person by whom the business is so conducted in any premises is conspicuously exhibited in the premises, *be guilty of an offence under section fifteen of the Pharmacy Act*, 1868.

We shall be glad if "Cytas," and others who share his opinion, will think over this, so as to grasp the fact that the section penalises qualified men only, as shown by the italics. Next, let them observe that the section lays down that the penalty can be avoided by the qualified owner providing two specific things—(1) qualified management and (2) exhibition of certificate. We pointed all this out months before the Bill became an Act, but nobody seemed to care a groat about it. Since the provision has become statutory we have explained that its application will be affected by judicial interpretation of what "the business of chemist and druggist" means. We do not know, nor does anybody else, until judges

decide, so that we are thrown back upon the terms of the section and the fact that "Cytas," a chemist and druggist, carries on his business as such in one set of premises, and he has a branch of it ("mixed") in a second set of premises; therefore, *prima facie* he is required by the new Act to have a qualified man in the branch. To relieve himself of the latter necessity he has to prove that the business of a chemist and druggist is not carried on in the branch.—Editor *C. & D.*]

Mutterings below Stairs.

Sir,—While our worthy President and others are expatiating, in various parts of the country, upon the ethical and other advantages which it is hoped the exponents of pure pharmacy—particularly the "pure" exponents of pharmacy—will derive from the new Act, the moment is perhaps opportune from a qualified employé's point of view for impressing upon qualified men the necessity of standing out for a standard wage when changing berths in the future. The chaffering necessary nowadays when seeking a fresh berth, except when negotiating with the few fairer-minded proprietors, is most repellent to an average qualified man, although he is simply asking for reasonable remuneration. As a general rule, qualified assistants of to-day are equal to, if not more advanced in technical knowledge of their craft than, their employers, and it is not therefore unreasonable of them to ask as a minimum wage 2*l.* 10*s.* per week outdoors, and an equivalent amount indoors, after allowing for board, etc., according to locality. There has appeared in these columns at various times a great deal of hysterical and unmitigated nonsense concerning the "selling of one's birthright for a mess of pottage." As one who for a year or two sold that very doubtful commodity in the manner implied, I would like to impress upon such correspondents the fact that all men are not blessed with the immediate prospect of "blossoming out" as proprietors—perhaps would not, if possible, nowadays (quite apart from store competition)—and must therefore do the best they can in their particular circumstances. Criticism has been bitter, and not always just, regarding stores and their proprietors, but the majority of the latter are much more considerate of their employés, both in wages and hours, than the ordinary private trader. When it is realised, therefore, that this passing over to the "stores" this silent protest against the unreasonable hours, that "casual-ward" by courtesy called "indoors," and the inadequate remuneration in comparison—will continue just as long as these evils exist, then, perhaps, a more reasonable policy will prevail with private employers, and qualified men will remain in or return to their habitat; and the store, being thus depleted of the necessary qualified manager and assistant, will automatically become extinct, or at least be held in check. Another incentive to the qualified employé to seek the store is the wholesale employment of the unqualified man, whenever and wherever possible, and quite apart from dire necessity, and the resulting congestion of the qualified labour market. We cannot live on *esprit de corps*, even were it a less imaginary abstract quantity than it is in pharmacy; and most of us are not yet eligible for old-age pensions.

Yours faithfully,

Managing Assistant. (190/72.)

An Early Cascara Prescription.

Sir,—After reading your article in the current number upon English cascara sagrada, in which it is stated that something like 100,000 trees are killed annually to meet the demand for the bark, I was led to reflect upon the comparatively short period which has elapsed since this drug was almost unknown in British markets. I remember very clearly the first occasion upon which I saw the drug prescribed, and, needless to say, the first idea was that it was some preparation of cascarilla; but that conjecture was soon proved to be erroneous, and a journey to the West-end was undertaken, with a view to finding out what it could be. I paid a visit to three of the largest dispensing establishments in London, and although they tried hard to help me, they were unable to do so. My last visit was to Messrs. John Bell & Co., and one of my old colleagues there said that he thought he had seen some such preparation in a recent list. We hunted it up together, and, if my memory be correct, in Messrs. Burgoyne, Burbidges & Co.'s list, as a preparation of Messrs. Parke, Davis & Co., for whom they were agents, we found ext. cascaræ liq. By the date on the prescription which I enclose, you will see that this was a little over twenty-eight years ago. I do not suppose that this was the first time the liquid extract was dispensed in London, but it is interesting as a starting-point, and perhaps some of your readers may be induced to turn back their prescription-records to earlier days, and so determine whether it was much in use before that time. I should expect that Liverpool would possibly be a likely spot for the earliest record, as I have no doubt that it had attained some value in America before it was even tried in this country, and Liverpool probably gets the first American prescriptions.

Kilburn, N.W., February 1. Chas. B. Allen.

[The prescription which Mr. Allen dispensed on October 29, 1880, was as follows:

Ext. cascara sagrada liq. ℥j. c. malti ℥ij.
Sig. ℥j. 2ce or 3ce daily, after meals.
22.9.80. S. W.

We understand that Messrs. Parke, Davis & Co. first made liquid extract of cascara sagrada in 1877, the same year in which the drug was discovered by Dr. J. H. Bundy, a physician on their staff. At that time and for several years after the bark of *Rhamnus frangula* was much prescribed in this country. The first mention of the bark of *Rhamnus Purshiana* that we find in the *C. & D.* was in May 1881; then in October 1883, Mr. Joseph F. Burnett, in a paper on "New Remedies," read to the Chemists' Assistants' Association, spoke of cascara sagrada as "a well-known remedy for constipation" (*C. & D.*, 1883, p. 551). Mr. Allen's prescription is therefore one of the earliest in this country.—Editor *C. & D.*]

The "Territorial" Plan for Chemists.

Sir,—I have to thank you for inserting my appeal for chemists to join the Territorial R.A.M.C. in East Anglia. The answer to your footnote to my letter is a simple one: a military hospital, whether mobile or stationary, is in essence the same as a civil hospital, and until civil hospitals put their dispensers on the hospital staff military hospitals cannot give their compounders commissions as officers. As a matter of fact, the position of sergeant-compounder, which is offered to chemists in the Territorial Force, is one of much greater authority than the average dispenser at a hospital enjoys.

There are, no doubt, several positions in the Territorial Force, when mobilised for war, which might with great advantage be held by chemists as commissioned officers, such as charge of advanced and base medical-store depots, analysts in base laboratories, and the like, and it would be an excellent thing if the War Office were approached on this subject and asked to make *à la suite* appointments. These posts are, however, not at present laid down in the Territorial establishments, and are not the part of the organisation for which I appealed to you. Men taking the post of compounders with the field units would acquire the knowledge and experience which would fit them for the higher posts I have suggested above.

Yours faithfully,

E. C. Freeman,
Major R.A.M.C. Res.

Tymperleys, Colchester.

[The leading civil hospitals regard their dispensers as professional men—in other words, the pharmacists hold staff appointments and receive higher salaries than the resident medical officers (saving superintendents). The Army system is antiquated; but the Territorial is new, and should be up to date.—Editor *C. & D.*]

Churchill's Spirone and Hypophosphites.

Sir,—A note was published in your issue of January 23 in which it was stated that Mr. O'Hagan, of Cabbé Roquebrune, had purchased the rights of Dr. Churchill's treatment. Several inquirers appear to think that reference is here made to the preparations of the hypophosphites with which Dr. J. F. Churchill's name has always been associated. This is not so. Mr. O'Hagan has acquired purely the formula for a preparation called "Spirone," which is an inhalation. Dr. J. F. Churchill was the first to discover the therapeutic properties of the hypophosphites, as proved by his communication to the Paris Academy of Medicine, July 25, 1857, and to the Academy of Sciences, 1858. It was in Havana in 1855 that he first administered the hypophosphites, then unknown in medicine. In those days the hypophosphite salts were very little known, difficult to procure, and by no means chemically pure. For these reasons Dr. J. F. Churchill applied to his friend, the late Mr. Swann, to get these salts prepared according to his

process, and in consequence gave him the exclusive right to use his name.

The firm hold, and have always held, the sole rights to Dr. J. F. Churchill's hypophosphites, which constitute the essential part of Churchill's treatment, while "Spirone" is merely an adjunct.—We are, dear Sir,

Yours truly,

The Proprietors of Swann's Pharmacy.

Paris, January 30.

Re "A System of Accounts for Chemists."

Sir,—In reading this article published in your Winter Number, January 30, 1909, p. 181, I was struck by the method which the writer advised. May I, as an accountant, point out some items which are of great interest to all who wish to be up-to-date and accurate in their book-keeping? Let us start with the day-book:

Day-book.—The writer goes to some pains in dissecting the purchases, yet leaves the sales (the outcome of purchases) in one lump sum. To get at the profit of the sundry lines of sales you must have the sales analysed in the same way as the purchases, if this purpose (departmentalising) is to be attained. For this the day-book (sales) should have analysis columns as well.

Journal.—The journal is not needful at all in a small business where only items of usual consequence come in, such as can be put through either the day-book (sales) or purchase-journal, etc.

Petty-cash Book.—This is not needed, for these items can be posted into the general cash-book in the usual way.

General Cash-book.—This book should be ruled with three columns on receipt and payments side. The columns will be used for:

Receipts side.

1. Discounts allowed.
2. Cash received.
3. *Cheques received and money paid to bank.

Payments side.

1. Discounts received.
2. Cash payments.
3. *Payments by cheque and bank charges, etc.

*These items constitute the bank columns.

By having a cash-book ruled as above, the correct method, by comparing the cash columns and bank columns on each side the balance in hand or bank can be readily ascertained.

Receipts Side.—The cash received in the usual way of business will be entered in the cash-book as cash sales, and the cash received on account of sales-ledger accounts will be entered in the name of the debtor (showing the discount allowed in the discount column) and posted to the account in the sales ledger. The total of discounts will be posted monthly, or as convenient, to the discount account in the private ledger. The bank columns should be checked with the bank pass-book.

Payments Side.—All payments (together with discounts in discount column) will be treated in the same way and posted to either—if cash purchases to the cash-purchases account in the private ledger, or if for credit purchases to the debit of the personal account in the bought-ledger. The bank will be checked with the bank pass-book and the balance therein obtained by comparing the two bank columns. The cash columns to be treated in the same way to verify the cash balance.

Purchase-journal.—This book should be ruled with a column for the total amount of the invoices, and have analysis columns for the different types of purchases. These separate purchases to be credited to the personal accounts in the bought-ledger. These sundry totals (analysed amounts of invoices) will be posted to the debit side of the respective nominal accounts in the private ledger monthly. All returns can be deducted from the purchases *in toto* each month, and posted to the debit of the personal accounts in the bought-ledger. The idea of treating purchases as is done in the article is a waste of time, and the method has been out of practice (in England) many years. In fact, it is the old method of treating purchases.

In order to get the profit-and-loss account the totals of stock at the beginning of period, purchases, sundry expenses, rents, rates, taxes, bad debts, etc., will be taken from the private ledger (these items have been previously posted from cash-book, purchase-journal, etc.) and posted to the debit side of the profit-and-loss account. The credit side of the profit-and-loss account will be obtained from the accounts of sales (less returns) and stock at the period of taking out the profit-and-loss account. To arrive at the profit, if the two sides (totals) of the account are compared and the credit side be found to be the greater, then the result is profit. This balance is carried to the balance-sheet. The stock (in trade) account in the private ledger simply shows an account of such at the end of each period, and is periodically written off to the profit-and-loss account, the stock-in-trade at the end of the period (date of accounts) being the only balance of this account (stock account). The balance-sheet will show the open balances at each period. The headings are under:

Liabilities.

Creditors less reserves for discounts.
Mortgages.
Loans.
Capital (including balance of profit-and-loss account).

Assets.

Debtors less reserve for discounts.
Cash in hand and bank.
Investments, etc.
Fixtures, fittings, furniture, etc.
Premises (freehold).

Many people who find accounts too intricate to keep give the idea up, and then the result is chaos. A good method of bookkeeping is a great essential to a successful business, and upon these lines I have attempted to initiate the would-be successful trader.

Yours truly,

F. Kemsey-Bourne.

255 High Street, West Bromwich.

Legal Queries.

Before submitting questions for reply in this section please refer to the "C. & D. Diary, 1909" for the following subjects: Income-tax, p. 220; Pharmacy Law and Poisons, p. 216, (abroad) p. 211; Spirit Laws, p. 229; Stamped Medicines, p. 221; Trade-marks, p. 194; Wines, Sale of, p. 231; and Legal matters generally, p. 233.

E. G. (192/60).—See the paragraph "Assistants" in *C. & D Diary*, p. 935. It saves time to look in the *Diary* for legal matters.

Sagrada (197/28).—It is still possible for a person who was in business as a chemist and druggist before July 31, 1868, to be registered under Section 5 of the 1868 Act. A declaration in the statutory form has to be made by the person, and one by a medical practitioner or magistrate who can testify from personal knowledge that the applicant was in business as stated. The fee is 12*l.* 12*s.*

Firm (197/34) asks if either of the following descriptions on labels will necessitate a chemist being on the board of directors of the company:

The Cannon Supply Stores, Ltd., A. Smart, M.P.S., Chemist, Member of the Pharmaceutical Society, Bloomsbury Street, London.	The Cannon Supply Stores, Ltd. Bloomsbury Street, Bloomsbury, London, W. Head Chemist, A. Smart, M.P.S., Member of the Pharmaceutical Society.

The question to be answered here is, Does the company use the title "chemist"? Apparently it does, for altbough the title is associated with the name of a registered person, it is the company that uses the labels for business-purposes, and the terms of Section 3 (4) apply. Whether or not such use was contemplated by the Act we cannot say. Descriptions like "Boots, Cash Chemists" were chiefly prominent, but the section clearly excludes the use of the title "chemist" by companies in any manner, unless the conditions of the section are fulfilled. The Pharmaceutical Council will no doubt give time for companies who are using such labels or descriptions to bring themselves within the law. See also reply to "Energy."

Homœopaths (198/3) write: The inclusion of "medicinal preparations of arsenic" in the first part of the new Poisons Schedule makes us doubt as to how the homœopathic dilutions of "arsenicum album" should be treated. On the face of it, it would appear that any homœopathic "medicinal preparation" of arsenic, even in an exceedingly dilute form, would be subject to Part I. rules; but there must surely be a point where the "de minimis non curat lex" principle applies. The same difficulty exists as regards preparations of aconite and secale cornutum in dilute form, and we should much esteem your opinion as to our best method of procedure when selling the above after April 1 next. The strongest preparation of arsenic we now sell without signature contains 1 part in 1,000, and the strongest preparations of aconite and bella donna contain 1 in 100 and 1 in 10 respectively of the fresh plant, the latter being treated as a Part II. poison. Perhaps you will be so good as to ventilate this question in your

columns, and give other chemists the benefit of your opinion. [All the preparations named by "Homœopaths" (except those of belladonna) are in the Schedule, or out of it on the "de minimis non curat lex" principle laid down by the English High Court in the Pharmaceutical Society *v.* Delve. If in it they must be treated as in Part I. The decision in that case affords little guidance; the article sold contained $\frac{1}{50}$ grain of morphine per oz.—*i.e.*, 1 in 22,000—and we should regard preparations of Part I. poisons containing 1 in 1,000 as being outside the decision and inside the Schedule. Preparations of aconite, 1 in 100, are certainly in Part I., and of belladonna, 1 in 100, in Part II.]

Energy (195/64).—(1) Your notepaper and labels are quite in order for the new Act conditions. In the case of companies, we have already advised (*C. & D.*, January 16, p. 86) that they should eliminate the word "pharmaceutical" from their descriptions. On April 1 it becomes an offence for a company to use the title pharmaceutical chemist, pharmaceutist, or pharmacist. This will be interpreted in the case of companies as it has been with individuals—*e.g.*, a description such as the following has been held to be illegal:

JOHN JONES,
Successor to John Smith,
PHARMACEUTICAL CHEMIST,

In this case John Jones was a chemist and druggist. Similarly such a description as

JOHN JONES, LTD.,
Managing Director, John Jones,
PHARMACEUTICAL CHEMIST,

would be illegal, but it would probably not be illegal for a company to state the names and qualifications of its directors, even though the latter are pharmaceutical chemists, provided the statement is not made in a manner which conveys the impression that the titles are the company's. This is more a question of fact than of law, and, in contradistinction from the point of "Firm's" inquiry (p. 245), it must be decided by precedents since 1852, whereas "Firm's" problem is based solely on the new Act. (2) A company carrying on the business of a chemist and druggist in more than one set of premises must provide a registered chemist as manager in every premises. That is a requirement apart from the use of the title. The wording of Section 3 (4) implies that the business is something more than selling and dispensing poisons, so that the removal of poisons will not, as far as we can at present ascertain, entitle a company to relieve itself of the obligations imposed by the section.

Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months. A preliminary condition for reporting on samples submitted is that all particulars as to source and uses are given to us.

W. M. E. (170/47).—Dental Anæsthetic.—This is a cocaine preparation. If you will consult the index of the last volume of the *C. & D.*, you will find several references which will supply the particulars required for compounding a similar injection.

G. P. (153/36).—(1) Concentrated Developers.—These were dealt with in an article in the Summer Number (July 25, 1908), to which please refer. (2) Combined Toning and Fixing Bath. The recipe for this was last given in the *C. & D.*, October 27, 1906, p. 661, and others are included in the chapter on photographic solutions in "Pharmaceutical Formulas."

Gentian (171/64).—Oak Stain.—The sample you send is a compound which would be represented by the following recipe:

Vandyke brown	½ oz.
Nigrosin	¼ oz.
Solution of ammonia	1 oz.
Spirit	1 oz.
Water to	10 oz.

Mix.

Gregory (174/18).—The Liquid Court Plaster for which a recipe was given in the *C. & D.*, January 9, p. 68, seems to meet your requirement.

Thistle (178/64).—You will find all information regarding the apothecaries' assistants' certificate in our Education Number, August 15, 1908. Considering the present congested condition of the market for women dispensers with this qualification it is an onerous responsibility to advise any girl to enter the ranks. In public institutions which employ women dispensers the tendency now is to engage those who have qualified under the Pharmacy Act.

Apprentice (178/3).—Four years is the usual period of apprenticeship to the retail drug-trade in Scotland, and three years in England. The latter is the period of practical training required by the Pharmaceutical Society for the Minor examination. If you have a five-years' apprenticeship you will know the business better at the end of that time than you would in three years. Fifty to sixty pounds a year outdoors is the salary commonly paid in Scotland to juniors of nineteen.

Nil Desperandum (161/42).—Superfluous Hairs.—The late Mr. Balmanno Squire was strongly of opinion that the last remedy that ladies can use for superfluous hair is a razor. It never fails. Depilatories, as your customer's experience proves, sometimes do. Mr. Squire was an authority on this subject, and his opinion was the result of his experience. Sell the lady a safety-razor, a shaving-brush, and a stick of soap. Perhaps Euxesis and the razor would lead her gently on to a habit which at first she may think too manly.

Delta (187/42).—We do not know the composition of the preparation. We have no recollection of the formula ever having been published in the *C. & D.*

Ipecac. (178/10).—(1) The Pharmaceutical Society no longer conducts a Preliminary examination. Its certificate of registration as a student is not accepted by the General Medical Council nor by the Scotch Universities or Colleges for registration as a medical student—even *pro tanto*. (2) The Minor certificate is evidence of training in practical pharmacy, and that is as far as it goes in the medical curriculum. (3) Judge for yourself by referring to our last Educational Number, August 15, 1908, which is the cheapest medical qualification in Scotland. (4) As to the Carnegie Trust conditions, write to the Secretary, Mr. W. S. McCormick, The Merchants' Hall, Edinburgh.

Army (191/2).—You will find particulars in regard to dispenserships in the Army Medical Corps in the *C. & D.*, August 22, 1908.

Anæsthetic (163/11).—Electro-gilding.—It does not, as a rule, pay to do gilding on a small scale, as the quantity of gold required for the necessary bulk of solution is costly. This is how electro-gilding is worked by amateurs:

The solution of double cyanide of gold and potassium is employed, and is made up in the following manner: Take 5 dwts. of pure gold ribbon, leaf, or wire (and divide it into two parts), 3 dwts. of potassium cyanide (98-per-cent.), and 2 pints of distilled water. Dissolve the cyanide in the distilled water, made hot in an enamelled vessel, and keep it nearly boiling while making and working the gilding solution. Make up a battery of two Bunsen cells and three Daniel cells in series. Hang a strip of gold from the wire leading to the negative element of the battery and the other strip to the wire leading to the positive element of the battery. Nearly fill a small white porous cell with the cyanide solution, place it into the saucepan, and suspend in the porous cell the strip of gold connected to the zinc element of the battery. Immerse the other strip of gold in the outer cyanide solution and pass the current from one to the other for from two to three hours. During this time some of the gold will have dissolved off the anode strip and entered into solution, forming the double cyanide of gold and potassium, but this will not have affected the strip of gold or liquid in the porous cell. If at the end of this time a piece of german silver suspended from the cathode wire in the outer solution receives a fair coat of gold in a few moments, the bath is ready for gilding work. The contents of the porous cell may be poured into the outer solution, both strips of gold used as the anode, and the work may proceed with current from one or two cells as may be required. At first there may be too much free cyanide, and the deposit may in consequence be too dark; but this fault will soon be corrected if the anode-plates are wholly immersed while gilding. If the contrary condition exists and the anode-plates are dirty or do not dissolve freely, add a very little more cyanide to the solution. If the whole of the gold dissolves in the solution, it will not be too strong, as a useful strength is 2 dwts. of gold to the quart of solution.

Refer also to articles on "Contact-gilding" in *The Chemists' and Druggists' Diary*, 1908, p. 215.

Electron (179/37).—Homœopathic Medicines.—The most-used of these are aconite, belladonna, bryonia, calendula, merc. sol., nux vomica, and sulphur, which should be stocked in both pilules and tincture. The 1x strength is usual, but customers often ask for other strengths—even for mother-tinctures. A stock must also be kept of Rubini's essence of camphor and camphor pilules, arnica opodeldoc, and calendula plaster.

GUARANTEED TO CONTAIN NO PERMANGANATE OF POTASH.

"Condy's Crystals"

Proprietors: CONDY & MITCHELL, LIMITED,
Condy's Fluid Works, GOSWELL RD., LONDON.

"Condy's Crystals" are put up in bottles to Retail at 1/- each, and are stocked by all the leading Wholesale Houses.

CONDY & MITCHELL, Limited, Condy's Fluid Works, Goswell Road, London, are the Proprietors and Sole Manufacturers.

BISHOP'S SPECIALITIES

on the P.A.T.A.

ALVIDS	1/-	OALAK	1/3 & 2/-
CHOCOLATE INDIGESTION TABLETS	1/1½	INDIGESTION PILLS	1/1½ & 2/9
DOLORINE	2/9	LIVER PILLS	1/1½ & 2/9
HEADACHE GRANULETS	1/1½	RUDOK	2/9 & 4/6
IMPERIAL SALINE	2/-	RUDOK TABLETS	2/9
LIVURA	2/-	TONULES	1/- & 2/9
MAXILS	1/1½ & 4/6	TYMURA	1/-
		YAMBA	2/9

VARALETTES AT FULL FACE PRICES.

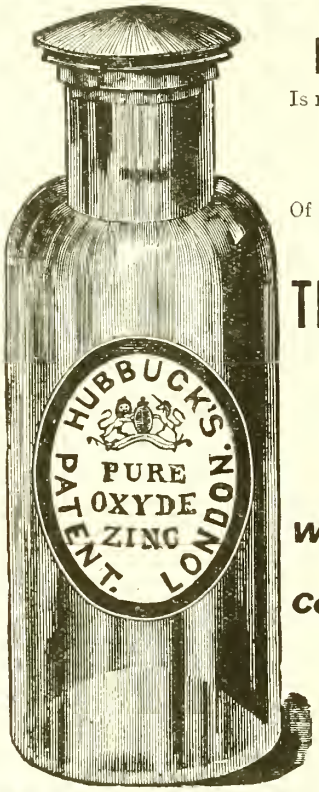
ALFRED BISHOP, Ltd.,
Manufacturing Chemists, 48 SPELMAN St., N.E.

HUBBUCK'S PURE OXIDE OF ZINC.

*Sold by the following Wholesale Druggists in Boxes of **7** lbs. and **14** lbs., stamped by the Manufacturers; also in **1**-lb. Boxes and **1**-lb. Glass Bottles :—*

Allen & Hanbury's (Lim.).
Baiss Bros. & Stevenson (Lim.)
Barron, Harveys & Co.
Bell, Jno., & Co.
Bleasdale (Lim.) [(Lim.).
Boot's Pure Drug Co.
Burgoyne, Burbidges & Clay, Dod & Co. [Co.
Cockburn & Co. (Lim).
Corbyn, Stacey & Co.
Dakin Brothers.
Davey Hill & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher & Webb (Lim.).
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan.
Harkness, Beaumont & Co.
Hatrick, W. & R., & Co.
Hearon, Squire & Francis.
Hirst, Brooke & Hirst.
Hodgkinson, Prestons & King.
Hodgkinsons, Clarke & Ward.
Horner & Sons.
Huskisson, H. O., & Co.
Inman's Stores (of Edinboro').
Ismay, John, & Sons.
Lofthouse & Saltmer.
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.
Raimes, Clark & Co.
Raimes & Co.
Rankin & Borland.
Silversides, R. B. G.
Southall Bros. & Barclay.
Sumner, R. & Co.
Taylor, James.
Thompson, John (Lim.).
Willows, Francis, Butler & Thompson.
Woolley, Jas., Sons & Co. (Lim.).
Wright, Layman & Umney (Lim.).
Wyleys (Lim.)

Barry, E. J., New York.
Carter, Carter & Kilham, Boston.
Finlay & Branswig, New Orleans.
Langley & Michaels, San Francisco.
Lehn & Fink, New York.
McKesson & Robbins, New York.
Muth Brothers & Co., Baltimore.
Roller & Shoemaker, Philadelphia.
Schieffelin, W. H., & Co., New York.
Shoemaker, R. & Co., Philadelphia.



HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities are not traceable.

THOS. HUBBUCK & SON, LTD.

(Established 1765).

24 LIME STREET, LONDON, E.C.

Manufacturers of—

White Lead, White Zinc, Paints, Oils, Colours, Varnishes, &c.

AUSTRALIAN OFFICE—
34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 2 cwt.

25% Protected Profit

Prices of Iron-Ox Tablets to the Trade.

One Shilling size Under 6 dozen **10/-** per dozen net. Cash with order.
6 dozen **9/9** per doz. net in 30 days, or **9/6** cash in 10 days.
12 ,, **9/3** do. do. or **9/-** do. do.

Four Shilling size Under 1½ dozen **40/-** per dozen net. Cash with order.
1½ dozen **39/-** per doz. net in 30 days, or **38/-** cash in 10 days.
3 ,, **37/-** do. do. or **36/-** do. do.

Mixed Orders The above terms for 6 dozen **1/-** size, or 1½ dozen **4/-** size will be given on mixed orders value **£3.** And our very best terms on mixed orders value **£6.**

Retail Price P.A.T.A. PROTECTED **1/-** and **4/-** face value. Carriage paid on all goods.

Attractive Show Cards, Window Slips, &c., Free on Application.

IRON-OX

TABLETS.

To be obtained from all the principal Wholesale Houses or direct from THE IRON-OX REMEDY CO., Ltd., 20 Cockspur Street, Trafalgar Square, London, S.W.

PHARMACISTS MAY ALWAYS RELY ON THE EXCELLENCE OF

HOWARDS'
SODII BICARB.

HOWARDS'
EPSOMS

HOWARDS'
QUININE

HOWARDS'
BISMUTHS

HOWARDS'
CAMPHOR

HOWARDS'
MERCURIALS

HOWARDS'
ACID. CITRIC.

HOWARDS'
ÆTHERS & SPIRITS
&c.

STOCKED BY DRUGGISTS THROUGHOUT THE WORLD.
STRATFORD, LONDON, E

The Poisons and Pharmacy Act, 1908, does not affect

Mrs. WINSLOW'S SOOTHING SYRUP

FOR CHILDREN TEETHING,

Which may be sold retail as hitherto.
Label of name and address ONLY need be placed on the bottle.

CARDS AND BILLS FREE ON APPLICATION FROM

THE ANGLO-AMERICAN DRUG CO., LIM. 33 FARRINGDON ROAD, **LONDON.**

THE

"QUANTITEST"

for the Quantitative Examination of Urine and Gastric Juice.

A thoroughly complete and scientific outfit, of various instruments of the most modern pattern and of the very finest quality, by means of which all the tests may be carried out correctly, easily and rapidly.

The Outfit Includes:

The "Quantitest" for the estimation of

"Saccharometer"	Sugar.
"Albuminometer"	Albumen.
"Uricometer"	Uric Acid.
"Ureameter"	Urea.
"Gravidimeter"	Spec. Gravity.
"Phosphatometer"	Phosphates.
"Indicanometer"	Indican.
"Acidimeter"	Acidity (Total and free H.Cl.)

Together with all reagents necessary for the various tests, thermometer, funnels, test papers, filter papers, full instructions for use.

Price 33/- in case.

APPLY FOR BOOKLET:
"MODERN MEDICAL TEST CASES."

ROBORAT COMPANY, 8 HARP LANE, LONDON, E.C.

NOTICE.

MILK EMULSION.

THE name "Milk Emulsion" is our Trade Mark for an Emulsion of Cod Liver Oil with Hypophosphites, and designates specifically that it is our preparation. Our Emulsion is known in commerce as "Milk Emulsion," and when "Milk Emulsion" is ordered people expect to receive FAULDING'S MILK EMULSION. We hereby give notice that no other persons can use the same name on their labels, wrappers or advertisements without infringing our legal rights.

"Milk Emulsion" is sold in Bottles only, Wholesale, by—

F. H. FAULDING & CO.

54 Great Tower Street, London, E.C.
54 King William Street, Adelaide, South Australia.
341-3 Murray Street, Perth, Western Australia.
16 O'Connell Street, Sydney, New South Wales.

The Largest Manufacturers of Castor Oil in the World.

LUNG TONIC
P. J. Formula.
Is Size for 7½d.

THE GREAT CURE FOR COUGHS, COLDS ASTHMA, BRONCHITIS, INFLUENZA, And all Affections of the CHEST, THROAT & LUNGS

NAME SPACE

QUICK SELLER. — SURE REPEATS.

LUNG TONIC

P. J. Form., therefore no stamps required. Known, admitted, and approved.

40/- per gr.
Double size, 70/- per gr.

FREE Showcards.
FREE Delivery.
FREE Packages.
FREE Sample.
NAME on Label.
NAME on Carton.

Profit over 100% and nothing to do but hand it over the counter. Makes an effective Window Show.

Davies, Sons & Co

Manufacturing Chemists, THE BRIDGE STREET, DERBY.

Analytical Notes.

A BRIEF RECORD

OF

ANALYTICAL WORK

carried out during 1908
in the Laboratories of

EVANS SONS LESCHER & WEBB

LIMITED,

LIVERPOOL & LONDON.

We have posted a copy of the above to each of our customers, and shall be pleased to send a copy gratis to any Registered Chemist on receipt of business card.

HOFF'S MALT

THE **GENUINE** BEARS THE **"HOMAX"** LABEL

! BEWARE OF SUBSTITUTES !

M. HOFF, Hamburg.

London Office: 29 NEW BRIDGE ST., E.C.

Wires: "POEM HULL."

PREMIER CASTOR OILS

ALL GRADES AND PACKAGES.

Manufactured by

PREMIER OIL EXTRACTING MILLS, LIMITED, HULL, England.

NOW IS THE SEASON FOR

COUGHS & COLDS

NOW IS THE TIME TO STOCK

licoricine

ACTS LIKE MAGIC

"LICORICINE" is an article of wonderful merit. Wide-spread recommendation and steady and persistent advertising ensures a rapidly increasing sale. *YOU* stock it, of course?

The minimum prices are fixed at:—

Retail ...	7½d.	size at	7½d. each	Wholesale,	7½d.	size at	6/3 doz.
Do. ...	1/1½	,,	1/- ,,	Do.	1/1½	,,	10/- ,,
Do. ...	2/9	,,	2/6 ,,	Do.	2/9	,,	25/- ,,

All Orders under £2 value, net on Rails. Orders for £2 and upwards, Carriage Paid. Orders for £5 and upwards, subject to 5 per cent. discount.

MANDALL & CO., Ltd., MANUFACTURING CHEMISTS,

STOCKTON-ON-TEES.

Enquiries for Showcards, Handbills, Counter Bills, &c., with Customer's name, will be promptly attended to.

Woods' Great Peppermint Cure

For **COUGHS, COLDS, INFLUENZA** and all **CHEST AFFECTIONS.**

Retail Price 1/1½ and 2/9.

Great success attended the introduction of this Proprietary in the North of England last Winter. The Advertising arrangements of this season are based on lines of an exhaustive character and considerable magnitude, embodying a Window Display of most original design, Verse Competitions, Posting and Newspaper Advertising, besides other novelties.

Fullest Particulars will be supplied by the Sole Agents for Great Britain—

Messrs. ROCKE, TOMPSITT & CO., 4 Redcross Street, London, E.C.

GOLD MEDAL, PARIS, 1900.

J. F. MACFARLAN & CO.

ESTD. 1780.

EDINBURGH AND LONDON.

MORPHIA. — CODEIA. — APOMORPHIA. — MORPHIA ESTERS.

CHLOROFORM. — ETHER. — SALICIN. — CHRYSAROBIN.

LISTERIAN SURGICAL

ANTISEPTIC DRESSINGS.

Telegrams - - - - "MORPHIA."

ROBERT BLACKIE

SHEN WORKS, Tower Bridge Rd.

SPECIALIST FOR

SPUN OINTMENTS

(Reg. Trade Mark.)

UNEQUALLED.

MAG. CIT. ... ... No. 1, **56**/- cwt.; No. 2, **64**/- cwt.; No. 3, **72**/- cwt.

SALINE ... ... No. 1, **46**/- cwt.; No. 2, **60**/- cwt.; No. 3, **10**d. lb.

Bulk and Packed.

LIME CREAMS in all sizes

With various labels and varied finish. A homogeneous Pure White Cream, which keeps indefinitely and will not go thick or separate.

PRICES.

3 oz.	4 oz.	6 oz.	8 oz.	White French Limes.
21/- to **24**/-	**24** - to **30**/-	**30**/- to **36**/-	**40**/- to **48**/-	per gross.

"ROCHE" BRAND

F. Hoffmann-La Roche & Co.
Basle

Paris: . . . Rue Saint-Claude 7.
New York: John Street 90. . .
Mailand: . Via Aurelio Saffi 9
Wien III: . Neuling-Gasse 11. .

Chemical factories at Basle (Switzerland) and Grenzach (Germany).
London Agent: Mr. Hugo Lorenz, 7 & 8 Idol Lane. . . . . .

Airol . . .
Aneson . .
Arsylin . .

Asterol . .
Benzosalin
Digalen . .

Kresapol .
Maukelan .
Protylin .

Secacornin
Sirolin . .
Sulfosot .

Thephorin
Thigenol .
Thiocol . .

STRYCHNINAE

[1]

Acetanilidum . .
Acid. acetylosalic.
— carbolic.
— salicylic.
Aconitin . . . .
Arecolinum . . .
Atropin . . . .
Benzonaphtol . .

Brucin . . . .
Caffeïnae . . . .
Cocaïn . . . .
Codeïn . . . .
Colchicin . . . .
Creosotum . . . .
Guaiacol . . . .
Homatropine . .

Methylsulfonal . .
Morphinae . . .
Narcotin . . . .
Organic prep. . .
Phenacetinum . .
Physostigmin . . .
Pilocarpin . . . .
Pyrocatechine . .

Resorcin . . . .
Saponin . . . .
Spartein . . . .
Strychninae . . .
Sulfonal . . . .
Theobrominae
Veratrin . . .

"ROCHE" BRAND

E. ERNEST JACKSON,

Crediton, Devon,

MANUFACTURER OF

MEDICINAL LOZENGES AND JUJUBES.

COMPRESSED TABLETS, REFINED LICORICE,

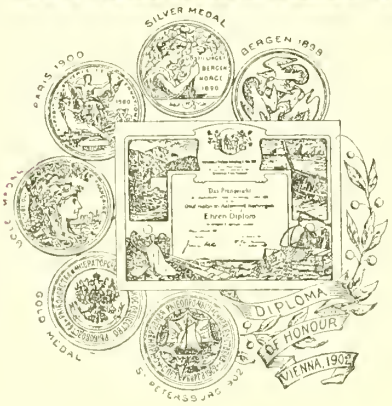
FLOWER FLAVOURED CACHOUS, &c., &c.

Proprietary Lozenges prepared with the greatest accuracy.

Goods carefully packed for Export.

Sole Proprietor of "Réale" Brand of Pure Licorice.

LONDON DEPOT: 291 KINGSLAND ROAD, N.E. Registered Telegraphic Address: "Jackson Crediton."



COD LIVER OIL

Holm's O.H. Gold Medal Brand

of Non-Freezing Norwegian Cod Liver Oil.

Wholesale Agents for United Kingdom:

A. ALBRETHSON & CO., Telegrams: "Albrethson, Glasgow."

41 ANN STREET, GLASGOW.

London Agents:

WILSON & MANSFIELD, Telegrams: "Wyfield, London."

19 ST. DUNSTAN'S HILL, LONDON, E.C.

PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this paper on Terms as below.

*Acet. Ipecac. B.P., 7 lbs. @ 1/2 lb.
* „ Scillæ, B.P., 7 lbs. @ 3d. lb.
*Acetone, 6 lbs. @ 1/2 lb.
***Acid. Acet. Glacial.**, 99%, 12 6-lb. bots. @ 6½d. lb.; 6 lbs. @ 8d. lb.
Acid. Acetylo-Salicyl., 56 lbs. @ 2/1 lb.; 7 lbs. @ 2/3 lb.; 1 lb. @ 2/5 lb.
Acid. Benz. B.P., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.
Acid. Boric. Pulv., 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; Levigated, 3/- cwt. extra.
Acid Carbol. xtls., 39/40; 56 lbs. @ 5¾d. lb.; 10-lb. Tins @ 6/- each; 6 1-lb. Bots. @ 11*d.* each; Crude, 95 Gall. Casks @ 10*d.* gall.; 1 Gall. Tins @ 1/5 each.
Acid. Citric Cryst., B.P. 1835, 1 cwt. @ 1/5 lb.; 7 lb. Bags @ 1/6 lb.
Acid. Diethylbarbituric, 16 oz. @ 2/9 oz.; 1 oz. @ 3/3 oz.
Acid Oxalic, Fine White Cryst., 5 cwt. @ 3¾d. lb.; 1 cwt. @ 3¾d. lb.; 14 lbs. @ 4d. lb.
Acid. Salicyl. pulv., 1 cwt. @ 1/1 lb.; 28 lbs. @ 1/2 lb.; 7 lbs. @ 1/3 lb.; pbys. pure, 1 lb. @ 3/- lb.
Acid. Tart., cryst. or pulv., B.P., 1885, 1 cwt. @ 10½d.; 7 lbs. @ 11½d. lb.; parv. ½d. lb. extra.
Adeps Benz., B.P., 28 lbs. @ 8*d.* lb.
Ammon. Benz., B.P., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Ammon. Brom., P.B., 1 cwt. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.
Ammon. Carb. lump, 3 cwt. @ 3¾d. lb.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.; powder, ½d. lb. extra.
Ammon. Oblor., 99% pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 4d. lb.; Batteries, 4/- cwt. extra.
Aniseed, English ground, 1 cwt. @ 35/- cwt.; 7 lbs. @ 5d. lb.
Cream Tartar, 98 % powder, 1 cwt. @ 76/- cwt.; 7 lbs. @ 9d. lb.
*Dec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/1 lb. Sine croco, 6 lbs. @ 1/- lb.
*Dec. Cinchonæ (Rubræ) Conc. 1-7, 6 lbs. @ 1/8 lb.
*Dec. Senegæ Conc. 6 lbs. @ 2/- lb.
Diouine, 15 grains @ 1/8; ¼ oz. @ 9/-.
Dragon's Blood, English Ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/- ½d. lb.
Ess. Lemon (Oil), Original Coppers, 12 lbs. @ 5/- lb.; 6 1-lb. bots. @ 5/6 lb; not guaranteed absolutely pure. [1/1 lb.
Ext. Cascaræ Sagradæ, Liq. B.P., 10 lbs. @
Ext. Cannab. Inl. Alc., P.B.; 6 lbs. @ 36/- lb.; 1 lb. @ 37/- lb. [2/10 lb.
Ext. Ergot. Liq. P.B., 5 lbs. @ 2/8 lb.; 1 lb. @
***Ext. Nucis Vom. Liq. B.P.**, 5 lbs. @ 2/6 lb.; 1 lb. @ 2/9 lb.; solid 4d. lb. extra.
Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.
Gingerine, Extra, 5 lbs. @ 9/6 lb.; 1 lb. @ 10/- lb.
Hexametbylentetramine, 7 lbs. @ 2/2 lb.; 1 lb. @ 2/4 lb.
Hydrargyrum P.B., 75 lb. bottle @ 167/-; 10 lbs. @ 2/5 lb.; 1 lb. @ 2/9 lb; Amon., 7 lbs. @ 3/- lb.; c. Creta, 7 lbs. @ 1/5 lb.; Iodid. Rub., 7 lbs. @ 8/8 lb.; Oxid. Rub., 7 lbs. @ 2/11 lb.; Perchlor. 7 lbs. @ 2/4½ lb.; Subchlor., 7 lbs. @ 2/8½ lb.; Sulpb. c. Sulpb., 7 lbs. @ 2/6 lb. 3-lb. quantities 1d. lb. extra, 1 lb. quantities 2d. lb. extra.
Hydrokinone, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.
Ichthyol Ammon., 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.
*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/- lb.
*Inf. Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/2 lb.
Licorice Juice, 4 and 2 oz. Sticks, 5 cwt. @ 57/- cwt.; 1 cwt. @ 58/- cwt.; 28 lbs. @ 7*d.* lb.; 7 lbs. @ 7½*d.* lb.
Ol. Morrhuæ Nov. 1908, finest non-freezing Norwegian 25 gall. tin lined barrels; 1 barrel @ 64/- barrel; 2 gal. tins @ 3/6 per gal.
Ol. Olivæ, P.B., good yellow, 46 galls. @ 5/- gall. 2 galls. @ 5/6 gall.
Ol. Orange Sweet, not guaranteed absolutely pure; 1 lb. @ 10/6 lb.
Ol. Peach Kernel (so-called) 1 cwt. @ 10d. lb.; 56 lbs. @ 10½d. lb.; 9 lb. @ 1/- lb.
Ol. Ricini Alb. Opt. Medicinal, 176 lb. @ 33/6 cwt.; 88 lb. @ 36/6 cwt.; 44 lb. @ 38/- cwt; 9 lbs. @ 5½*d.* lb.
Ol. Rosmarini Coml., 28 lbs. @ 1/6 lb.; 9 lbs. @ 1/7 lb.; B.P., 9 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Ol. Santali Flav. Ang. B.P., 5 lbs. @ 10/9 lb.; 1 lb. @ 11/3 lb.
„ Sinapis Express., 1 gall. tins @ 4/6 each.
Opium Turc. B.P., 3 lbs. @ 14/6 lb.; 1 lb. @ 15/- lb.; powder, 6d. lb. extra.
Oxymel Scillæ, B.P. 5 cwt. @ 27/- cwt.; 1 cwt. @ 30/- cwt.; * 7 lbs. @ 6d. lb.
Phenacetin, P.B., pulv. 1 cwt. @ 2/8 lb.; 7 lbs. @ 2/10 lb.; 1 lb. at 3/- lb.
Phenazone, P.B., 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.
Phenolphthalein, 7 lbs. @ 9/3; 1 lb. @ 10/- lb.
Plumbi Acetas, Druggists' powder, 1 cwt. @ 35/6 cwt.; 7 lbs. @ 4½*d.* lb.
Potas. Acetas. Gran. P.B., 28 lb. @ 1/- lb.; 7 lbs. @ 1/1 lb.
Potas. Brom., P.B., 1 cwt. @ 11*d.* lb.; 28 lbs. @ 11½*d.* lb.; 7 lbs. @ 1/- lb.
Potass. Cit., B.P., 7 lbs. @ 1/6 lb.
Potass. Iod. P.B., 1 cwt. @ 7/9 lb.; 14 lbs. @ 7/10 lb.; 3 lbs. @ 7/11 lb.
Pulv. Glycyrrh. Co. B.P. (Green), English Ground, 56 lbs. @ 31/- cwt.

Camphor

Aqua Anethi Conc. 1-40, 1 lb. @ 2/6 lb.
„ Anisi Conc. 1-40; 1 lb. @ 2/6 lb.
Aqua Aurant. Conc., 1-40, 1 lb. @ 5/6 lb.
„ Cinnam. Conc. 1-40, 1 lb. @ 2/9 lb.
Aqua Rosæ Conc. 1-40, 1 lb. @ 5/6 lb.
„ Samb. Conc., 1-40, 1 lb. @ 5/6 lb.
„ Laurocerasi, 53 lbs. @ 17/6; 6 lbs. @ 7d. lb.
„ Menth. Pip. Conc. 1-40, 1 lb. @ 2/6 lb.
Argent. Nit., Cryst., 25 oz. @ 1/6 oz.; 8 oz. @ 1/7 oz.
Argent. Nit., 6's to oz., 25 oz. @ 1/8½ oz.; 1 oz. @ 1/10 oz.
Bacc. Juniper, 1 cwt. @ 18/6 cwt.; 28 lbs. @ 22/- cwt.; 7 lbs. @ 3d. lb.
Bals. Copaibæ pure, 44 lbs. @ 2/3 lb.; 9 lbs. @ 2/5 lb.; 1 lb. @ 2/9 lb.
Benzo-naphthol, 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Bismuth. P.B. Carb., 28 lbs. @ 7/7 lb.; 7 lbs. @ 7/10 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.
Bole Armenian, 5 cwt. @ 5/6 cwt.; 1 cwt. @ 6/6 cwt.; 7 lbs. @ 2d. lb.
Camphor, English Flowers, "not artificial," 5 lbs. @ 2/- lb.; ¼ oz. 7 lbs. @ 2/3 lb.; ⅛ oz. 7 lbs. @ 2/5 lb.; 1 cwt. lots. 1d. lb. less.
Capsicine, Soluble, 1 lb. @ 6/6 lb.
Carbo Animalis or Ligni, 1 cwt. @ 14/- cwt; 28 lbs. @ 2d. lb. [13/- lb.
Carmine, Finest, 1 lb. @ 17/- lb.; No. 2. 1 lb. @
Chloral Hydras Cryst. B.P., 7 lbs. @ 4/- lb.; 1 lb. @ 4/1 lb.
*Chlorodyne, 5 lbs. @ 1/10 lb.
***Chloroform**, pure B.P., 12 8-lbs. @ 1/7½ lb.; 8 lbs. @ 1/8½ lb.; 6 1-lb. botts. @ 1/10½ lb.
Cocaine Hydrochlor, P.B., 25 oz. @ 7/6 oz.; 1 oz. @ 8/- oz.
Colocynth. Apple, English ground, 1 cwt. @ 10½d. lb.; 28 lbs. @ 11d. lb.; 7 lbs. @ 1/0½d. lb.

Carbolic

*Lin. Aconiti Metb., 5 lbs. @ 1/3 lb.; 1 lb. @ 1/6 lb. [1/8 lb.
*Lin. Bellad. Meth., 5 lbs. @ 1/5 lb.; 1 lb. @
Lin. Camph. P.B., 40 lbs. @ 11*d.* lb.; 9 lbs. @ 1½d. lb.
Lin. Sapo Meth., 9 lbs. @ 7d. lb.
Lin. Tereb. Acet., B.P., 9 lbs. @ 1/- lb.
Linseed c. Oil, Crushed, 3 cwt. @ 16/- cwt.; 1 cwt. @ 16/6 cwt.
*Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 10½d. lb.; 1 lb. @ 1/0½ lb.
* „ Ammon. Aromat., 6 lbs. @ 8d. lb.
* „ Bismuth. P.B., 6 lbs. @ 10½*d.* lb.
*Liq. Opii Sed., 5 lbs. @ 3/- lb.
Manna, fine flake, 14 lbs. @ 3/3 lb.
Methyl Salicyl. 56 lbs. @ 1/4 lb.; 5 lbs. @ 1/8 lb; 1 lb. @ 1/10 lb.
Morphia Diacetyl. Hydroch'or., 1 oz. @ 10/6 oz.
Morphinæ Acet. Hydrochlor. or Sulph., Pulv., B.P., 16 oz. @ 7/1 oz.; 8 oz. @ 7/4 oz.; 1 oz. @ 7/8 oz.; Tart., 1 oz. @ 9/7 oz; Bimeconate, 1 oz. @ 9/6 oz.
Ol. Cajuput, 16 oz. Bots., @ 2/9 lb.
Ol. Caryopb. Aug., B.P., 9 lbs. @ 3/3 lb.; 4½ lbs. @ 3/5 lb.
Ol. Cocoa Nucis, finest White, 80 lbs. @ 45/- cwt.; 49 lbs. @ 5½d. lb.
Ol. Eucalypt., B.P., 1 cwt. @ 1/1 lb.; 28 lbs. @ 1/1¾ lb.; 9 lbs. @ 1/2½ lb.
Ol. Geranii Gall. Opt., 1 lb. @ 18/6 lb.; 8 1-oz. bots. @ 1/11 oz.; 1 oz. @ 2/1 oz.; Turc., 1 lb. @ 10/- lb.; 4 oz. @ 12/6 lb.
Ol. Juniperi Bacc., B.P., 4½ lb. @ 3/6 lb.; 1 lb. @ 4/- lb.; Ligne Exot., 1 cwt. @ 1/2 lb.; 28 lbs @ 1/4 lb.; 9 lb. @ 1/5 lb.
Ol. Lavand. ab Flor., 5 lbs. @ 8/6 lb.; 1 lb. @ 9/3 lb.

Cocaine

Quiniuæ Hydrobromas or Hydrochlor. B.P., 100 oz. @ 11½d. oz.; 25 oz. @ 1/0½ oz.; 10 oz. @ 1/2 oz.
Quininæ Sulph., P.B., 1,200 oz. @ 6¾d. oz.; 100 oz. @ 6¾d. oz.; 25 oz. @ 7½d. oz.; 10 oz. @ 8d. oz.
Rad. Rhei, E. I., English ground, 1 cwt. @ 1/2½ lb.; 28 lbs. @ 1/3½ lb.; 7 lbs. @ 1/5 lb.
Senna Leaves, Tinne., 1 cwt. @ 3½d. lb. 7 lbs. @ 3½d. lb.; English Ground, 1 cwt. @ 5½d. lb.; 56 lbs. @ 6d. lb.; 7 lbs. @ 7d. lb.; Alex. pulv., 1 cwt. @ 4d. lb.; 28 lbs. @ 4½d. lb.
Ung. Acid. Boric. P.B., 28 lbs. @ 6½d. lb.; Flav. 28 lbs. @ 4½d. lb.
„ Acid Carbol. B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.
„ Gallæ P.B., 7 lbs. @ 10d. lb.; 1 lb. @ 11d. lb.
c. opio, 7 lbs. @ 2/2 lb.
„ Hydrargyri B.P., 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9½ lb.
„ Hydrarg. Ammon. B.P., 28 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.
„ Hyd. Nit. Dil., 7 lbs. @ 10d. lb.
„ Paraff. Alb., P.B., 28 lbs. @ 7d. lb.; 7 lbs. @ 8d. lb.; 1 lb. @ 10d. lb.; Flav. 28 lbs. @ 5d. lb.; 7 lbs. @ 6½d. lb.
„ Resinæ, P.B., 28 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.
„ Sulphuris B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d lb.
„ Zinci Oxid. Benz. B.P., 28 lbs. @ 7½d. lb.
Zinci Oxid., Whitest and Lightest B.P., 1 cwt. @ 34/- cwt.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5*d.* lb.
„ Sulphocarbolas B.P., 7 lbs. @ 10½d. lb.; 1 lb. @ 1/1 lb.

*Minimum quantity at these prices, Home Trade, 3 Winchester Quarts assorted. Export, 12 Winchester Quarts assorted.

NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

ALLIANCE DRUG & CHEMICAL CO., LONDON.

Office: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.

. . THE . .

Chemist's Co-operative Wholesale.

Acetanilide B.P. 1 cwt. @ **1/0½** lb.; 7 lbs. @ **1/1½** lb.; 1 lb. @ **1/3** lb.
Acetum Ipecac. B.P. 6 lbs. @ **1/-** lb.
,, ***Scillæ B.P.*** 7 lbs. @ **3d.** lb.
Acid. Acetic. Glacial. B.P. 126-lb. bots. @ **6½d.** lb.; 6 lbs. @ **7½d.** lb.
,, ***Acetyl-salicylic.*** 7 lbs. @ **2/2** lb.; 1 lb. @ **2/4** lb.
,, ***Benzoic. B.P.*** 28 lbs. @ **1/6** lb.; 7 lbs. @ **1/8** lb.; 1 lb. @ **1/10** lb.
,, ***Carbolic. Cryst. B.P.*** 1 cwt @ **5¼d.** lb.; 10 lbs. @ **7d.**; 112 1-lb. bots. @ **8½d.**; 6 1-lb. bots. @ **9d.** lb.
,, ***Hydrobrom. Dil. B.P.*** 6 lbs. @ **7d.** lb.
,, ***Hydrocyan. Dil., B.P.*** 12 1-oz. bots. @ **3/-** doz.
,, ***Oxalic. Cryst.*** 5 cwt. @ **3¼d.** lb.; 1 cwt. @ **3½d.** lb.; 14 lbs. @ **4½d.** lb.
,, ***Tartaric Pulv. or Parv.*** 14 lbs. @ **11d.** lb.
Adeps Benz. B.P. 28 lbs. @ **7d.** lb.
Aloes Barb. Pulv. 1 cwt. @ **60/-** cwt.; 7 lbs. @ **8d.** lb.
,, ***Cape, Pulv.*** 28 lbs. at **50/-** cwt.; 7 lbs. @ **7d.** lb.
,, ***Socot. Pulv.*** 28 lbs. @ **1/1** lb.; 7 lbs. @ **1/2½** lb.
Aloin B.P. 1 lb. @ **3/6** lb.
Ammon. Bromid. B.P. 7 lbs. @ **1/1** lb.
Amyli Pulv. 2½ cwt. @ **12/9** cwt.; 1 cwt. @ **14/-**; 28 lbs. @ **16/-** cwt.
Aniseed, English Ground. 1 cwt. @ **33/-** cwt.; 28 lbs. @ **35/-** cwt.
Antim. Nig. Pulv. 1 cwt. @ **27/-** cwt.; 28 lbs. @ **29/-** cwt.
Aqua Anethi Conc., 1 to 40. 5 lbs. @ **1/10** lb.; 1 lb. @ **2/2** lb.
,, ***Anisi Conc.***, 1 to 40. 5 lbs. @ **1/10** lb.; 1 lb. @ **2/2** lb.
,, ***Aurant. Flor. Trip.*** 53 lbs. @ **16/6** lb.; 5 lbs. @ **7d.** lb.
,, ***Carui Conc.***, 1 to 40. 5 lbs. @ **1/10** lb.; 1 lb. @ **2/2** lb.
,, ***Laurocerasi, B.P.*** 53 lbs. @ **16/6**; 5 lbs. @ **7d.** lb.
,, ***Menthæ Pip. Conc.***, 1 to 40. 5 lbs. @ **1/10** lb.; 1 lb. @ **2/2** lb.
,, ***Rosæ Conc.***, 1 to 40. 5 lbs. @ **5/2** lb.; 1 lb. @ **5/6** lb.
,, ,, ***Trip.*** 53 lbs. @ **17/6**; 5 lbs. @ **7d.** lb.
,, ***Sambuci Trip.*** 53 lbs @ **21/-**; 5 lbs @ **8d.** lb.
Balsam Copaibæ Pure, B.P. 44 lbs. @ **2/2** lb.; 9 lbs. @ **2/4** lb; 1 lb. @ **2/7** lb.
,, ***Tolu, B.P.*** 40 lbs. @ **1/-** lb.; 1 lb. @ **1/4** lb.
Bandages, W.O.W. 1 in. **6s. 0d.**; 1½ in. **8s. 3d.**; 2 in. **10/6**; 2½ in. **13/-**; 3 in. **16/-** per gross.
Bismuth Carb. B.P. 3 lbs. @ **7/6** lb.; 1 lb. @ **7/8** lb.
,, ***Subnit. B.P.*** 3 lbs. @ **6/6** lb.; 1 lb. @ **6/8.**
Calcii Carb. Præcip. No. 1. Lightest, 5 cwt. @ **13/-** cwt; 56 lbs. @ **16/-**
Camphor, English Flowers, genuine, 5 lbs. @ **2/1** lb.
,, ***Tabs, English***, ¼, ½, and ½oz., 7 lbs. @ **2/4** lb.
,, ,, ***Japanese***, 1 oz., 7 lbs. @ **1/8** lb.
Capsicine, Soluble. 1 lb. @ **6/-** lb.
Cera Alb. B.P., Moons, 1 cwt. @ **1/6** lb.; 28 lbs. @ **1/6½** lb.; 4 lbs. @ **1/7½** lb.
,, ***Flav. B.P.*** 1 cwt. @ **1/4** lb.; 28 lbs. @ **1/4½** lb.; 4 lbs. @ **1/6** lb.
Chloroform, B.P. 8 lbs. @ **1/8½**; 3×1 lb. Bots. @ **1/10½** lb.
Cocain. Hydrochlor B.P. 25 ozs. @ **7/9** oz.; 4 ozs. @ **7/10**; 1 oz. @ **8/3**
Conf. Sennæ B.P. 14 lbs. @ **7d.** lb.; 7 lbs. @ **7½d.**
Cotton Wool, White Absorbent, Interleaved, 1 lb. rolls, 28 lbs. @ **6½d.**; 7 lbs. @ **7d.** lb.
Creta c. Camph. 7 lbs. @ **7d.** lb.
Dec. Aloes Co. Conc., 1 to 3. 6 lbs. @ **1/11** lb.
,, ,, ,, ,, ***sine Croco,*** 6 lbs. @ **1/-** lb.
Dec. Cinchon. Conc., 1 to 7. 6 lbs. @ **1/2** lb.
,, ***Sarsae Jam. Co. Conc.***, 1 to 7. 6 lbs. @ **2/-** lb.
,, ***Senegae Conc.***, 1 to 7. 6 lbs. @ **1/8** lb.
Enemas, Black I.R., Guaranteed. 3 doz. @ **13/-** doz.; 1 doz. @ **13/6.**
Ext. Belladon. Liq. B.P. 5 lbs. @ **3/3** lb.
,, ***Cascar. Sagrad. Liq. B.P.*** 6 lbs. @ **1/1** lb.
,, ***Ergotæ Liq. B.P.*** 5 lbs. @ **2/6** lb.
,, ***Glycyrrh. Liq. B.P.*** 6 lbs. @ **1/-** lb.
,, ***Hamamelidis Liq. Dest., B.P.*** 5 lbs. @ **9d.** lb.
,, ***Ipecac. Liq. B.P.*** 5 lbs. @ **8/9** lb.
,, ***Nucis Vom. Liq. B.P.*** 5 lbs. @ **2/6** lb.
,, ***Sarsae Liq. B.P.*** 5 lbs. @ **2/-** lb.
Fennel, English Ground. 1 cwt. @ **37/-** cwt.; 28 lbs. @ **39/-** cwt.
Ferri et Ammon. Cit. B.P. 28 lbs. @ **1/5½**; 7 lbs. @ **1/6½d.** lb.
,, ***et Quinin. Cit. B.P.*** 100 oz. @ **3½d.** oz.; 25 oz. @ **3½d.**; 1,000 × 1-oz. bots @ **4½d.**; 100 × 1-oz. bots. @ **4½d.**
Flor. Anthem., Good Medium. 7 lbs. @ **6d.** lb.
Fol. Sennæ, Good Clean Leaf, 1 cwt. @ **3½d.** lb.; 28 lbs. @ **3½d.** lb.
Gelatine, Sheet. 7 lbs. @ **10½d.**

NEXT WEEK LOOK FOR OUR PAGE.

Gingerine. 1 lb. @ **6/6** lb.
Glycerine, B.P., 1.260. 1 cwt. @ **68/-**; 56 lbs. @ **69/-** cwt.
Glycerin. Acid. Carbolic. B.P. 6 lbs. @ **1/-** lb.; 3 lbs. @ **1/1** lb.
,, ,, ***Tannic. B.P.*** 6 lbs. @ **1/1** lb.; 3 lbs. @ **1/2** lb.
,, ***Belladon. B.P.C.*** 6 lbs. @ **1/11** lb; 3 lbs. @ **2/-** lb.
,, ***Boracis B.P.*** 6 lbs. @ **11d.** lb.; 3 lbs @ **1/-** lb.
,, ***Pepsini B.P.*** 6 lbs. @ **1/10** lb.; 1 lb. @ **2/-** lb.
Gum Tragac. Pulv. Opt. 7 lbs. @ **3/-** lb.
Honey, Pale Set. 14 lbs. @ **4½d.** lb.
Hydrarg. Ammon., B.P. 7 lbs. @ **2/11** lb.; 1 lb. @ **3/2** lb.
,, ***c. Creta, B.P.*** 7 lbs. @ **1/3** lb.; 1 lb. @ **1/4.**
,, ***Subchlor., B.P.*** 7 lbs. @ **2/7** lb.; 1 lb. @ **2/10** lb.
Hydrogen Peroxide, B.P. 1 gln. @ **2/6** gln.
Infus. Aurant. Conc., 1 to 7. 6 lbs. @ **10d.** lb.
Infus. Aurant. Co. Conc., 1 to 7. 6 lbs. @ **1/-** lb.
,, ***Buchu Conc.***, 1 to 7 6 lbs. @ **1/-** lb.
,, ***Calumbæ Conc.***, 1 to 7. 6 lbs. @ **10d.**
,, ***Cinchon. Acid. Conc.***, 1 to 7. 6 lbs. @ **1/4** lb.
,, ***Gent. Co. Conc.***, 1 to 7. 6 lbs. @ **10d.** lb.
,, ***Quassiæ Conc.***, 1 to 7. 6 lbs. @ **8d.** lb.
,, ***Rhei Conc.***, 1 to 7. 6 lbs. @ **1/-** lb.
,, ***Rosæ Acid. Conc.***, 1 to 7. 6 lbs. @ **1/3** lb.
Infus. Senegæ Conc., 1 to 7. 6 lbs. @ **1/8** lb.
,, ***Sennæ Conc.***, 1 to 7. 6 lbs. @ **1/-** lb.
Iodoform Pulv. B.P. 7 lbs. @ **12/-** lb.; 3 lbs. @ **12/4** lb.; 1 lb. @ **12/6** lb.
Lin. Aconit. Meth. 5 lbs. @ **10d.** lb.
,, ***Belladon. Meth.*** 5 lbs. @ **1/2** lb.
,, ***Camph. B.P.*** 40 lbs. @ **11d.** lb.; 9 lbs. @ **1/-** lb.
,, ***Camph. Ammon. Meth.*** 5 lbs. @ **11d.** lb.
,, ***Saponis Meth.*** 5 lbs. @ **6½d.** lb.
,, ***Tereb. Acet., B.P.*** 9 lbs. @ **10d.** lb.
Linseed c. Oil, Crushed. 1 cwt. @ **15/6** cwt.
Lint. 7 lbs. @ **1/2** lb.
Lignum Quassiæ, Incis. 1 cwt. @ **13/-** cwt.; 28 lbs. @ **2d.** lb.
Liq. Ammon. Acet. Conc., 1 to 7. 6 lbs. @ **9d.** lb.
,, ***Bismuth. et Ammon. Cit. B.P.*** 6 lbs. @ **10½d.** lb.
,, ***Copaib. Buchu et Cubeb.*** 5 lbs. @ **2/-** lb.
,, ***Ferri Iodid. p.s.***, 1 to 7. 1 lb. @ **5/6** lb.
,, ***Ferri Perchlor. Fort. B.P.*** 9 lbs. @ **4d.** lb.
,, ***Morph. Hydrochlor. B.P.*** 6 lbs. @ **2/3** lb.
,, ***Papaveris, p.s.***, 1 to 3. 6 lbs. @ **1/-** lb.
,, ***Rhamni, p.s.***, 1 to 7. 6 lbs. @ **3/9** lb.
,, ***Rhei, p.s.***, 1 to 7. 6 lbs. @ **1/10** lb.
,, ***Santal. Co.*** 6 lbs. @ **2/3** lb.
,, ***Sennæ Dulc.*** 6 lbs. @ **11d.** lb.
,, ***Sennæ, p.s.***, 1 to 3. 6 lbs. @ **1/6** lb.
,, ***Tolu, p.s.*** 1 to 7. 6 lbs. @ **1/6** lb.
Liquorice Juice, Pure. 2 and 3½ oz. sticks, 5 cwt. @ **53/-** cwt.; 1 cwt. @ **54/6**; 28 lbs. @ **6½d.** lb.; 7 lbs. @ **7d.** lb.
Magnes. Carb. Levis. 7 lbs. @ **3½d.** lb.
,, ***Sulph. B.P.*** 1 cwt. @ **5/9** cwt.
Mist. Sennæ Co. B.P. 20 lbs. @ **5d.** lb.; 6 lbs. @ **6d.** lb.
Morphinæ Acet. Hydrochlor. or Sulph. Pulv. B.P. 16 oz. @ **7/1** oz.; 8 oz. @ **7/3** oz.; 1 oz. @ **7/6** oz.
Naphthalin, Candle, Marble, or Flake. 5 cwt. @ **10/6** cwt.; 1 cwt. @ **11/-** cwt.; 28 lbs. @ **13/-** cwt.
Oleum Amygd. Dulc. Ang. B.P. 9 lbs. @ **1/9** lb.
,, ***Amygd. Persic.*** 9 lbs. @ **1/-** lb.
,, ***Caryoph. B.P. Ang.*** 5 lbs. @ **3/4** lb.; 2 lbs. @ **3/5** lb.
,, ***Eucalypti B.P.*** 28 lbs. @ **1/2** lb.; 9 lbs. @ **1/3½** lb.; 4½ lbs. @ **1/4** lb.
,, ***Menthæ Pip., American.*** 20 lbs. **6/9** lb.; 9 lbs. @ **7/-** lb.; 1 lb. @ **7/6** lb.
,, ***Morrhuæ Nov. Opt.*** 1 barrel @ **65/-**; 2 galls. @ **3/6** gall.
,, ***Ricini Alb. Opt.*** 160 lbs. @ **30/6** cwt.; 80 lbs. @ **31/6**; 40 lbs. @ **32/6**; 9 lbs. @ **5d.** lb.
Opium Turc. Druggists' Good. 7 lbs. @ **14/-** lb.; Pulv., 7 lbs. @ **14/6** lb.; 1 lb. @ **15/-** lb.
Oxymel Scillae. B.P. 1 cwt. @ **34/-** cwt.; 28 lbs. @ **4½d.** lb.; 7 lbs. @ **5d.**
Phenacetin. B.P. Pulv. 7 lbs. @ **2/8** lb.; 1 lb. @ **2/10.**
Phenazone B.P. 7 lbs. @ **6/10** lb.; 1 lb. @ **7/2** lb.
Potass. Bromid. B.P. 28 lbs. @ **11½d.** lb.; 7 lbs. @ **1/1** lb.
,, ***Citras, B.P.*** 7 lbs. @ **1/8** lb.
,, ***Iodid. B.P.*** 14 lbs. @ **7/7** lb.; 3 lbs. @ **7/9**
Pulv. Glycyrrh. Co. B.P. 28 lbs. @ **30/-** cwt.
Quinin. Sulph. B.P. 100 ozs. @ **7d.** oz.; 25 ozs. @ **7½d.**
Rad. Gentian., English Ground. 1 cwt. @ **31/6** cwt.; 28 lbs. @ **33/6** cwt.
,, ***Jalapæ Pulv.*** 28 lbs. @ **1/6** lb.; 7 lbs. @ **1/7** lb.
,, ***Rhei, E.I., Pulv.*** (Splendid value). 1 cwt. @ **10½** lb.; 28 lbs. @ **1/1** lb.; 7 lbs. @ **1/2** lb.

See opposite page.

THE CHEMIST'S CO-OPERATIVE WHOLESALE.

(Carried forward from previous page.)

Rad. Rhei, E.I., Pulv., Elect. 4 lbs. @ 2/3 lb.
Sacch. Lactis Pulv. B.P. 28 lbs. at 5½d. lb.; 7 lbs. @ 6d. lb.
Saffron, Valentia Opt. 1 lb. @ 32/6 lb.; 4 ozs. @ 2/3 oz.
Sapo Castil. Alb. Pulv. 1 cwt. @ 56/- cwt.; 7 lbs. @ 7d. lb.
Sodii Bicarb. Opt. 1 cwt, kegs @ 8/3 cwt.
„ ***Bromid. B.P.*** 7 lbs. @ 1/- lb.
„ ***Salicyl. Pulv.*** 28 lbs. @ 1/4 lb.; 7 lbs. @ 1/5 lb.; 1 lb. @ 1/7 lb. Cryst. B.P., ½d. extra.
Spts. Æther. Nit. B.P. 5 lbs. @ 2/7 lb.
„ ***Ammon. Aromat. B.P.*** 5 lbs. @ 2/1 lb.
Sulphur. Flor. 1 cwt. @ 7/9 cwt.
Syr. Easton B.P. 7 lbs. @ 9d. lb.
Syr. Ferri Iodid. B.P. 7 lbs. @ 11d. lb.
„ ***Ferri. Phosph. Co.*** 28 lbs. @ 3½d. lb.; 7 lbs. @ 4d.
„ ***Hypophosph. Co. B.P.C.*** 7 lbs. @ 7½d. lb.
„ ***Rhei B.P.*** 7 lbs. @ 6½d. lb.
„ ***Scillae, B.P.*** 28 lbs. @ 3½d.; 7 lbs. @ 4d. lb.
„ ***Sennæ B.P.*** 7 lbs. @ 7d. lb.
„ ***Tolut. B.P.*** 7 lbs. @ 5d. lb.
Tinct. Aconiti, B.P. 5 lbs. @ 2/3 lb.
Tinct. Aloes, B.P. 5 lbs. @ 1/7 lb.
„ ***Arnicæ, B.P.*** 5 lbs. @ 2/4 lb.
„ ***Aurant., Recens. B.P.*** 5 lbs. @ 2/5 lb.
„ ***Belladon. B.P.*** 5 lbs. @ 2/- lb.
„ ***Benzoin. Co. B.P.*** 5 lbs. @ 2/6 lb.
„ ***Buchu, B.P.*** 5 lbs. @ 2/1 lb.
„ ***Calumbæ B.P.*** 5 lbs. @ 1/11 lb.
„ ***Camph. Co. B.P.*** 5 lbs. @ 1/9 lb.
„ ***Canthar. B.P.*** 5 lbs. @ 2/11 lb.
„ ***Capsici, B.P.*** 5 lbs. @ 2/6 lb.
„ ***Cardam. Co. B.P.*** 5 lbs. @ 1/10 lb.
„ ***Catechu, B.P.*** 5 lbs. @ 1/11 lb.
„ ***Chlorof. c. Morph. B.P.*** '85. 5 lbs. @ 1/6 lb.
„ ***Cinchonæ B.P.*** 5 lbs. @ 2/6 lb.
„ „ ***Co. B.P.*** 5 lbs. @ 2/7 lb.
„ ***Digitalis B.P.*** 5 lbs. @ 1/11 lb.
„ ***Gelsem. B.P.*** 5 lbs. @ 2/- lb.
„ ***Gent. Co. B.P.*** 5 lbs. @ 1/6 lb.
„ ***Guaiaci Ammon. B.P.*** 5 lbs. @ 2/7 lb
„ ***Hyoscyami, B.P.*** 5 lbs. @ 2/3 lb.
„ ***Iodi, B.P.*** 5 lbs. @ 3/- lb.
„ ***Lavand. Co. B.P.*** 5 lbs. @ 2/8 lb.
„ ***Myrrh, B.P.*** 5 lbs. @ 3/- lb.
„ ***Nucis Vom. B.P.*** 5 lbs. @ 1/11 lb.
„ ***Opii B.P.*** 5 lbs. @ 2/6 lb.
Tinct. Opii Aquos. 5 lbs. @ 1/11 lb.
„ ***Quininæ Ammon. B.P.*** 5 lbs. @ 1/10 lb.
„ ***Rhei Co. B.P.*** 5 lbs. @ 1/9 lb.
„ ***Scillæ, B.P.*** 5 lbs. @ 1/11 lb.
„ ***Zingib. B.P.*** 5 lbs. @ 2/9 lb.
„ ***Zingib. Fort.*** 5 lbs. @ 3/1 lb.
Ung. Acid. Boric. B.P. 28 lbs. @ 6d. lb.
„ „ „ ***Flav.*** 28 lbs. @ 4d. lb.
„ „ ***Carbolic. B.P.*** 28 lbs. @ 6½d. lb.; 7 lbs @ 7d. lb.
„ ***Gallæ, B.P.*** 7 lbs. @ 10d. lb.; ***c. Opio B.P.*** 7 lbs. @ 2/- lb.
„ ***Hydrarg B.P.*** 1 cwt. @ 1/7 lb.; 7 lbs. @ 1/9 lb.
„ ***Hydrarg. Ammon. B.P.*** 28 lbs. @ 10d. lb.; 7 lbs. @ 11d. lb.
„ ***Resinæ B.P.*** 28 lbs. @ 10d. lb.; 7 lbs. at 10½d. lb.
„ ***Sulphuris B.P.*** 28 lbs. at 7d. lb.; 7 lbs. @ 7½d. lb.
„ ***Zinci, B.P.*** 28 lbs. @ 7d. lb.
Vinum Ipecac. B.P. 5 lbs. @ 1/4 lb.
White Demy, 15 lbs. 10 reams, 2/9 ream; 5 reams, 3s. ream.
Zinci Oxid. B.P. 1 cwt. @ 33/- cwt.; 14 lbs. @ 4d. lb.
„ ***Sulph. Pur.*** 1 cwt. @ 18/- cwt.; 28 lbs. at 20/- cwt.

36 CAMOMILE STREET, LONDON, E.C.

TERMS: Cash with order. Packages free. Export Cases extra.

Smaller quantities at slightly increased prices. Carriage paid as follows:
London and Suburbs: On orders value £2. Country: On orders value £5. Heavies excluded.

Dr. KAUFMANN'S

SULPHUR BITTERS

Go like wild fire and are sold by all the principal pharmacies in the **United States, Canada, Europe, Australia, India, China, Japan, Egypt, North, South, East and West Africa, Asia, Cuba, East and West Indies, Phillipines and Central America.** Sulphur Bitters are especially adapted for all diseases peculiar to hot climates.

For Sale by Jobbers and Druggists in all Countries, and
BARCLAY & SONS, LTD.,
95 FARRINGDON STREET, LONDON, E.C.
Prepared by
A. P. Ordway & Co., Manufacturing Chemists,
341-345, West 37th Street, NEW YORK.

THE "GIANT" REMEDY.

Tel. Add.: "Giant, Plymouth,"

BOX'S PILLS

WRITE FOR TRADE TERMS.

Re-christened by the Americans

"The Great English Remedy."

1s. 1½d., 2s. 9d., 4s. 6d., 11s., and £1 1s.

Prepared only by
W. H. BOX, 161 KING ST., PLYMOUTH.

C. F. Asche & Co., Hamburg I,

Manufacturers of Chemical and Pharmaceutical Preparations

established SPECIALITIES 1877.

Compressed Medicaments of Cascara sagrada, Quinine, Rhubarb, Antifebrine, Chlorate of Potash, Bicarbonate of Soda &c. in every size. Pills (Cragées) of all kinds, will be made after every description. Granulated medicaments Pastilles of all kinds, Germans, English and Fsench in all sizes and description. Sublimate pastils. Injections tablets, Wonder crown essence, Harlem oil, Medicamentum Sancti Spiriti, Dutch Medicines, Wormtablets, effervescent Powders, Sedlitz Powders, Suppositories, Asthma cigarettes, granulated Kola.

C. F. ASCHE TRADE MARK HAMBURG

Trade Mark "**Asche**" is guarantee for best quality.
All articles putted up in all kinds and languages. Price list and parcels gratis and franco. Telegram address "Pharma".

Mr. CHEMIST! A FEW FIGURES

about the prices of "ARFIE," the Premier Eye and Skin Remedy.

		P.A.T.A.			
SELLING PRICE	(per dozen)	13 6	small size	1 13 0	large size
WHOLESALE PRICE	„	10 0	„	1 5 0	„
YOUR PROFIT	.... „	3 6	„	8 0	„
		Quick Seller.	Quick Healer.	Quick Repeater.	

ISN'T IT WORTH YOUR WHILE TO STOCK "ARFIE"?

Fuller particulars on application to the Manufacturers— **ARFIE, Ltd.** (Depot C) **ROCHESTER, KENT.**

ESTABLISHED 1772.

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care in the greatest chemical purity by

MESSRS. THOMAS & WILLIAM HENRY, 11 EAST STREET, ST. PETER'S, MANCHESTER.

And is sold in bottles, authenticated by a Government Stamp bearing their name. Trade Mark, Henry's Calcined Magnesia.

PRICE 4s. 6d. or 2s. 9d.

NEW YORK—Messrs. SCHIEFFELIN & CO., William Street. PARIS—Messrs. ROBERTS & CO., 5 Rue de la Paix.

"Acts Immediately."

RUBWEL

SKIN OINTMENT.

AN EASY FIRST FOR QUICK SALES AND HANDSOME PROFITS.

2D. 6D. & 1/- TINS

Send for Samples and Liberal Terms—

THE RUBWEL CO., Pendleton, Manchester.

London Depot: 4 Redcross Street, E.C.

MALT EXTRACT.

NEW SEASON'S SUPPLY.

We invite enquiries from large buyers. Our special facilities enable us to offer highest quality on very advantageous terms.

WE CAN MAKE CUSTOMERS' OWN EXTRACT TO THEIR INSTRUCTIONS. OUR EXTRACT DOES NOT CRYSTALLIZE OR FERMENT. WE CAN MIX COD LIVER OIL UP TO 20 PER CENT. AND GUARANTEE IT NOT TO SEPARATE.

Send us your enquiries or ask our representative to call on you.

PAINE & CO., Ltd., Maltsters and Malt Extract Manufacturers.

ST. NEOT'S, HUNTINGDONSHIRE.

A NEW ERA IN
DISINFECTANTS
A Perfect Germicide.

"Kalzen"

FLUID
POWDER (Soluble).
POWDER (Insoluble).
SOAP (Bar and Soft).

KALZEN
FLUID
Has a Carbolic Co-efficiency
on
B. TYPHOSUS
by
RIDEAL-WALKER
METHOD
OF 17

Samples and full particulars, with reports by Bacteriologists, may be obtained on application to

A. ROWAN & BROTHER, LIMEHOUSE, LONDON, E.

Telegrams: "ROWANTREES LONDON." Telephone: 3216 EAST.

SPECIAL "IALINE" FLUID
DISINFECTANT

The Special "Ialine" Fluid has been submitted to H.M. OFFICE OF WORKS, and APPROVED AS A SATISFACTORY DISINFECTANT, after being tested by the special method included in the Official scheme of examination.

MANUFACTURERS OF VARIOUS DISINFECTANT FLUIDS WITH GUARANTEED CO-EFFICIENCIES UP TO 16·0 (B. TYPHOSUS TEST, RIDEAL-WALKER METHOD).

LIQUID SHEEP DIP

Approved for Sheep Scab by the BOARD OF AGRICULTURE AND FISHERIES, and DEPARTMENT OF AGRICULTURE AND TECHNICAL INSTRUCTION FOR IRELAND, in the proportion of One Gallon of Dip to Seventy Gallons of Water.

WEED KILLER. SULPHUR CANDLES. LIQUID SANITARY SOAP. NAPHTHALINE, in Various Forms. FORMALDEHYDE SOLUTION 40%, and TABLETS. PINE SANITARY FLUIDS, POWDERS, SOLUBLE BLOCKS, &c., &c., &c.

SPECIAL ARRANGEMENTS MADE WITH COUNTRY CHEMISTS.
FULL PARTICULARS ON APPLICATION TO

BURT, BOULTON & HAYWOOD, LIMITED.

OFFICES: 64 CANNON STREET, LONDON, E.C.
CHEMICAL WORKS: PRINCE REGENT'S WORKS, SILVERTOWN, LONDON, E.
Agent for Ireland: H. FitzGerald Campbell, 5 Greenmount Road, Terenure, Dublin.

THE OFFORD HYGIENIC TRUSS.

"SIMPLE—SCIENTIFIC—SECURE." PATENT.

NO BODY SPRING. NO UNDERSTRAP. WASHABLE.

Can be placed where required and remains in position.

Weighs only 3 ozs.

The **"OFFORD" TRUSS** readily sells, because it has so many advantages over all other Trusses.

Liberal Terms are offered to Chemists; these and the fact that a very small stock is necessary make the **"OFFORD" TRUSS** a profitable line to push.

A limited number of Window Displays can be arranged for in each district.

NO FITTING REQUIRED.

Made in one size only, Rights, Lefts and Doubles.

Does not deteriorate in stock.

For particulars, Trade Terms, Descriptive Booklets, &c., apply

THE OFFORD PATENT HYGIENIC TRUSS COMPANY, LTD.

44 ST. ANDREW STREET, CAMBRIDGE.

DO NOT REFUSE ORDERS, BUT WRITE,

and instructions for taking Measures and Prices of the best Surgical Appliances for the following cases will be forwarded per return.

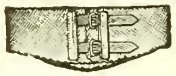
J. H. HAYWOOD,

Surgical and Athletic Appliance Manufacturer,

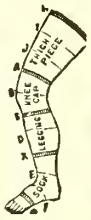
CASTLE GATE, NOTTINGHAM.

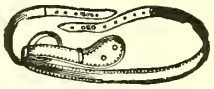
Specialities: TRUSSES for Ruptures of all kinds.

Special Quality for Colliers, Engine Drivers, &c. Ladies' and Gentlemen's Supporting Belts and Bandages. Poro-Plastic Jackets and Steel Instruments for Curvature of the Spine moulded to the Patients as in London. Splints and Instruments for Deformed Feet and Legs. Chest Expanding Braces for Stooping Shoulders and Contracted Chests. Patent Elastic Surgical Stockings, without Seams, for Varicose Veins, Sprains, &c. Magnetic Belts and Appliances for all parts of the body. India Rubber Appliances, Invalid Furniture, Bath Chairs, Carriages, Crutches, Ear Trumpets, Throat, Ear and Nose Instruments, &c. Artificial Arms, Legs, &c. Strong Cheap Articles for Working Men. Appliances scientifically made and carefully fitted at the Manufactory.

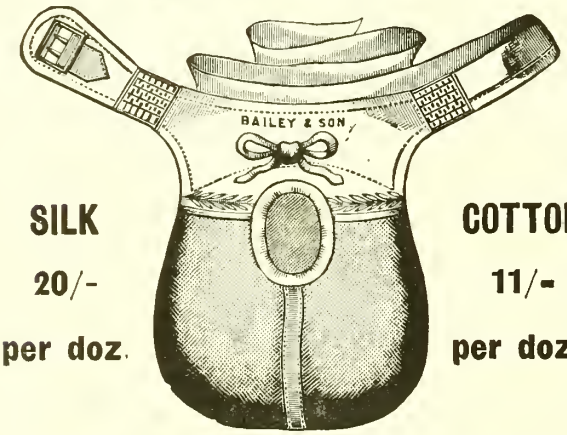


Invalids waited upon at their own Residence (by Lady Attendant) if wished.





BAILEY'S "A.B.C." SUSPENSORIES.



SILK 20/- per doz.

COTTON 11/- per doz.

Assorted—A, small; B, medium; C, large bags.

W. H. BAILEY & SON,

38 OXFORD STREET, LONDON. W. [3]

DR. BOW'S LINIMENT.

PREPARED BY HIS SON.

SPURIOUS IMITATIONS of the genuine Liniment having been offered for sale, the Proprietor, in order to protect the public from, and to facilitate proceedings against, such frauds, registered the Trade Mark here shown. As a further security, the name "DR. BOW'S LINIMENT" (also a Trade Mark) appears in the Government Stamp.

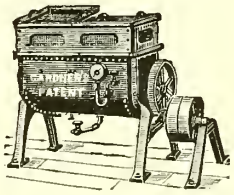
The WHOLESALE AGENTS are:

BARCLAY & SONS, Ltd., London.
RAIMES, CLARK & CO., Edinburgh.

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS

OVER 2,870 working in Almost Every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.



FOR HAND OR POWER.

From 55/- to £90.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.

HOT-WATER BOTTLES

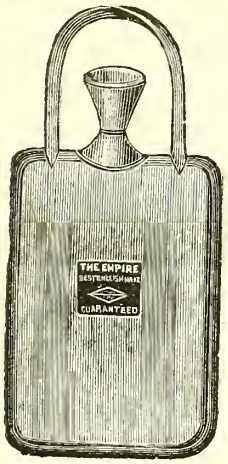


Fig. 955.
TOP HANDLE.

GUARANTEED FOR 2 YEARS.

Both "heavy" and "light" bottles are made from **best quality** rubber.

Reduction in Prices.

SIZES.	HEAVY. s. d.	LIGHT. s. d.	PLUSH COVERS. s. d.
6× 8 inch	2 8 each	2 5 each	0 8 each
6×10 ,,	3 0 ,,	2 8 ,,	0 8 ,,
6×12 ,,	3 5 ,,	3 1 ,,	0 10 ,,
8×10 ,,	3 8 ,,	3 2 ,,	0 10 ,,
8×12 ,,	4 2 ,,	3 7 ,,	0 11 ,,
8×14 ,,	4 9 ,,	4 2 ,,	0 11 ,,
10×12 ,,	4 9 ,,	4 2 ,,	0 11 ,,
10×14 ,,	5 4 ,,	4 10 ,,	1 0 ,,
12×14 ,,	6 2 ,,	5 7 ,,	1 2 ,,

EACH ONE IN A NEAT PAPER BAG WITH DIRECTIONS FOR USING.

A special Discount of 5% for cash with order.

For orders of two dozen bottles assorted we will put tablet with customer's name on free of charge.

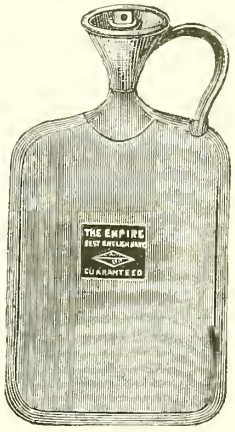


Fig. 957.
SIDE HANDLE

Carriage paid on Orders of £2 and upwards to any Town in the United Kingdom.

BURGE, WARREN & RIDGLEY, Ltd.,

91 and 92 Great Saffron Hill, London, E.C.

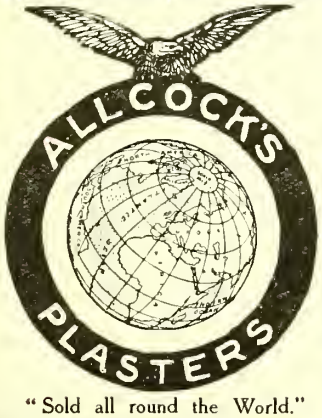
The Original and only Genuine

Allcock's

POROUS PLASTERS

A REMEDY OF 60 YEARS' STANDING.

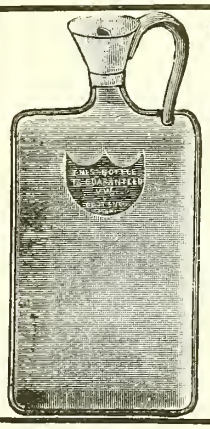
Allcock's Plasters
Allcock's Corn and Bunion Plasters
Brandreth's Pills
} ***The Three Reliables.***



A HANDSOME SHOWCARD will be sent free of cost and post paid on application.

ALLCOCK MANUFACTURING COMPANY
22 Hamilton Sq., Birkenhead.

"Sold all round the World."



VINCENT WOOD

For BRITISH MADE

Hot-Water Bottles.

One Quality only—
BEST and RELIABLE.
10×8 3/3, 12×8 3/9 each.
Other Sizes in Proportion.

Also NEW COVERS.

CHEST AND LUNG PROTECTORS, WINTER BODY BELTS, TRUSSES, ELASTIC HOSIERY, and Surgical Appliances generally.

4 Albion Place, Blackfriars Bridge,
Send for List. **LONDON, S.E.**

THE NEW

'ADAPTABLE' HOT WATER BOTTLE

(REGISTERED DESIGN.)

Suitable for many purposes for which the old-fashioned shape is useless.

For BED WARMERS.
For CARRIAGES.
For MOTOR CARS.
For INVALIDS, &c.

Customers can have their names, &c., printed on reverse side.

LOW PRICES. BIG DISCOUNT.

Sole Manufacturers :—
The Fulham Pottery & Cheavin Filter Co., Ltd., FULHAM, LONDON, S.W.

CARDS.

For Terms apply to the Publisher.

FRED^K. FINK & CO.
10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES: Dextrine—Gum Arabic—Gum Tragacanth—Pure Beeswax—Ceresine Wax—Honey, &c.

SPECIALITY:
880s LIQUOR AMMONIA
Pure by Chemical Analysis. Equalled only by VOLCANIC AMMONIA.
Sold to large Wholesale Drug Houses over 30 years, and has given the highest satisfaction.
BROWN & BLACKBURN, (Sales Dept.) **THONGSBRIDGE,**
ESTAB.] HUDDERSFIELD. [1876.

DOG AND CAT MEDICINES
will increase your Sales.
LIBERAL TERMS. HIGH CLASS GOODS.
Books on Disease, Show Cards, and Pedigree Forms sent free
THE "WILSON" VET. MED. MANUFACTURING Co., Ltd.,
ASHFORD, MIDDLESEX.

Dr. Stedman's Teething Powders
1/1½ size 2/9 4/6 11/-
6/6 doz. 18/- doz. 34/- doz. 120/- doz.
Discount 5 per cent. on £10 worth for cash.
Showcards on Application.
GUM LANCET
TRADE MARK 125 NEW NORTH ROAD, LONDON, N.

TOBACCOS! CIGARS! CIGARETTES!
Every known Brand at Manufacturer's own List Prices. Endless variety of Tobacconists' Fancy Goods and Shop Fittings. The Trade only supplied. Opening orders a Speciality. Send for Price List.
SINGLETON & COLE, Ltd., CANNON STREET, **BIRMINGHAM.**

SOOTHER CABINET **FREE**
To CHEMISTS placing Contract Orders for Soothers, to be taken as required.
Write to **The GALEN Mnfg. Co., Ltd.,**
Wilson Street, New Cross Road, London, S.E.

GRAPELAX. By Special Appointment to the Greek Royal Family.
The Ideal Tonic Laxative for Children.
GRAPELAX pleases the Trade. It is on the P.A.T.A. list with remunerative terms.
GRAPELAX pleases the Medical Profession. There is no mystery or secret.
GRAPELAX pleases the Public, for it is a genuine and effective and a palatable medicine for Children.
Order from the Wholesale houses, or direct from **GRAPELAX, LTD., 379 STRAND, W.C.**

PRECIPITATED CHALK.
EXTRA LIGHT AND ALL GRADES TO SUIT EVERY PURPOSE.
CHEAPEST SELLERS IN THE MARKET.
AUG. LEVERMORE & CO., 8, 9 & 10, Great St. Helen's,
LONDON, E.C.
TELEGRAMS: "LEVERMORE, LONDON." TELEPHONE: 4613 CENTRAL.

Best Enamel Tooth Stopping	sell 1d.	2½d.	doz.
Invisible Ink, Blue or Green	„ 3d.	1/9	„
Indelible Marking Ink	„ 3d.	1/7	„
Perfect Beetle Destroyer (6-oz. tins.) ...	„ 6d.	3/6	„

Prices nett and carriage paid per post or carrier.
W. H. SNOW & CO., 2 Kingly St., Regent St., London, W.

Outem for Corns.
On the P.A.T.A.
The Quickest Seller on the Market. Payment allowed for Window Displays.
The Outem Corn Remedy Co.,
DUDLEY, WORC.

KRUSCHEN SALTS,
produced by evaporation from the celebrated mineral springs. A perfect diuretic aperient for the treatment of Rheumatism, Gout, Constipation and Inactive Liver
Liebig's Analysis: Soda Sulph., Soda Chlorid., Soda Phosph. Magnes. Sulph., Magnes. Chlorid., Potas. Sulph., Potas. Chlorid.
Minimum Retail Price, 1/6. Wholesale, 13/6 per doz. net.
Carriage Paid. P.A.T.A. conditions.
E. GRIFFITHS HUGHES, Pharmaceutical Chemist, 17 Deansgate, Manchester.

DENTISTRY FOR DENTISTS
by FENTIMAN & CO. (A. J.),
Practical Dentists in Gold, D.A., Tubes, Crowns, Gum Sections, Vulcanite, Celluloid, Strengthened Rubber, Reg. Cases, Obturators, &c.
Telephone: 9977 London Wall. Telegrams: "Lullingly London."
Postal—East Smithfield, Tower Bridge. Established 1835.
Price Lists on receipt of card or estimates free.

"Long Felt Want at Last."
BRETT'S HAIR BRUSH STAND.
(FULLY PATENTED).
Oak with Nickel Fittings, "Collapsible."
Suitable for Window and Counter.
HOLDS AND SHOWS TO BEST ADVANTAGE 12 BRUSHES. *Post free* 5/6.
TAYLER & BRETT, Medical Hall, YEOVIL, SOMERSET.

The **ANTI-RAT CAMPAIGN:** When ordering, please **SPECIFY FARMER'S "BAITED" PHOSPHOR PASTE.**
WHY? Because it is mixed perfectly by a new process, sells well, **NEVER FERMENTS,** shows a 100% margin, and is well got up.
PRICES:—3d. Jars, 1/5 doz. 6d. „ 2/10 „ 1/- „ 5/8 „
AGENTS: May Roberts, Barclays, Edwards, Sangers, Butler & Crispe, W. Suttons, Newberys, Burgoyne Burbidges, and Evans Lescher & Webb.
Stocked & listed by each of these houses.
TO COUNTRY CHEMISTS.—We will deliver securely packed and carriage paid to anywhere in United Kingdom 6 doz. 3d. & 3 doz. 6d. (nicely got up in BLUE WRAPPER with *your own* NAME and ADDRESS) on receipt of P.O. 20/-, which will return you 36/-, and you *can push* your own. Sole Proprietors:—
F. FARMER & CO., 17 Poole Rd., S. Hackney, LONDON, N.E. (For Home & Export Trade.)

DENTISTRY
(Mechanical).
EXPERT WORKMANSHIP. PROMPT SERVICE.
POPULAR PRICES. GUARANTEED MATERIALS.
"Dentistry for Chemists" post free. "Everyday Dentistry," 3/6.
F. C. WARDALE & CO., 132 High Street North, East Ham.
Telephone No. East Ham 174.

Dentistry
FOR DENTISTS AND CHEMISTS REQUIRING RELIABLE WORKMANSHIP.
Most Perfect Workmanship. Best Materials, and Artistic Finish Guaranteed.
My Assistants are the pick of the London Dental Mechanics.
Price List of **A. G. FENTIMAN,** 42 Bishopsgate Without, LONDON, E.C.
Telegrams: "FENTIDENT LONDON." Telephone: London Wall, 7.

Tuition in Optics & Sight-testing
For the Examinations of the Worshipful Company of Spectacle Makers by LIONEL LAURANCE (late Official Instructor to the Company), assisted by H. OSCAR WOOD.
Special reductions to members of the Society of Chemist-Opticians.
Prospectus on application to 21 John St., Bedford Row, W.C.

EVERY DESCRIPTION OF
SPREAD PLASTERS—Surgical, Medical, Porous, &c.
(Rubber and Plumbi Base),
BANDAGES, SURGICAL DRESSINGS
Sole Agents in Great Britain for
Rumpf's Crêpe and Lisle Bandages ("The Geneva").
LESLIES, Ltd., Spencer House, South Place, Finsbury, E.C.

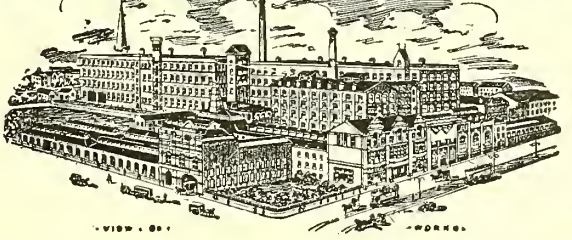
First - Class Mechanical Dentistry.
Reliable workmanship. Popular prices. Moderate charges for gold, D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M.Co. Teeth and Rubber guaranteed. Punctuality strictly observed. List free. Trial case solicited. Gold and D.A. work a speciality. Special cheap rates for show case pieces. 14 years' experience of first-class mechanical dentistry.
E. C. HALDER, 46 New Cross Road, LONDON, S.E.

DIABETES
FOODS AND GLUTEN PRODUCTS.
CALLARD & CO., 74 Regent St., LONDON.

TO WHOLESALE BUYERS & SHIPPING MERCHANTS ONLY.
FOR ALL KINDS OF
CAPSULES & PERLES.
Hand-made or Machine-made, "TYE'S" will ensure purity of contents and best finish. Specially prepared to suit all climates.
JOHN TYE & SON —— Manufacturing Chemists, ——
(Established 1845), PACKINGTON STREET, LONDON, N.

WINTER LINES IN LARGE SELECTION
LANOLINE, COLD CREAMS, CAMPHOR ICE,
EUCALYPTUS & CAMPHOR ICE, LIPSALVE, MENTHOL SNUFF,
MENTHOL & EUCALYPTUS SNUFF, MENTHOL INHALERS, ETC.
SAMPLES & PRICES ON APPLICATION
THOS. CHRISTY & CO.
4, TO 12, Old Swan Lane, London, E.C.

SURGICAL DRESSINGS.
ABSORBENT COTTON LINTS.
FLAX LINTS.
ROLL BANDAGES.
COTTON WOOLS.
"GAMGEE TISSUE"
(Patent Absorbent Gauze and Cotton Wool)
AND
ASEPTIC and ANTISEPTIC DRESSINGS.
MANUFACTURED BY
ROBINSON & SONS, LIMITED, COTTON SPINNERS, WEAVERS, And BLEACHERS, Wheat Bridge Mills, CHESTERFIELD.
And 55 Fann Street, Aldersgate Street, LONDON, E.C.

HUNTLEY, BOORNE & STEVENS, LTD
TIN-WORKS, READING.
COLOR PRINTERS ON TIN.

MAKERS OF HIGH-CLASS. DECORATED & PLAIN TIN BOXES, & SPECIALITIES FOR CHEMISTS.
Quotations to samples or descriptions.
CORRESPONDENCE INVITED.
Telegrams "Tinworks" Reading. National Telephone 20

By Royal Warrant to H.M. The King.

By Royal Warrant to H.M. The King.

Only ONE Address.

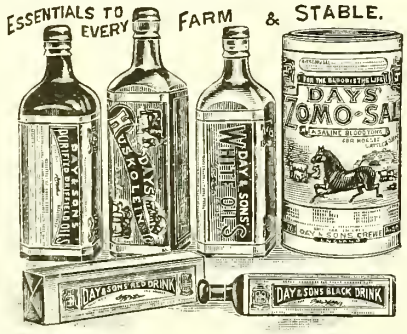
DAY & SONS, CREWE. LTD. (CREWE)

ESTABLISHED 1840.

HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only ONE Address.

LARGEST SALE IN THE WORLD.



DAYS' BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills, and Low Condition in all Stock.

Price 1/8 per bottle.

DAYS' HUSKOLEIN.

Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

6/6 per bottle.

DAYS' "ZOMO-SAL."

For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 7/6, 20/-, and 40/-

DAYS' RED DRINK

OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for calving. Prevents Milk Fever, and cures Bad Cleansing.

12/- per doz. packets.

The Ewe Drench for Ewes, 3/6 per doz.

DAYS' OILS

(THE PURIFIED DRIFFIELD OILS)

Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

2/6 and 6/- per bottle.

DAYS' WHITE OILS.

A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

2/6 and 6/- per bottle.

DAY & SONS' "ORIGINAL" MEDICINE CHESTS

Price £1 4s., £2 4s., £5, and £10 10s.; Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock. WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest Illustrated is similar to that at £5 and £2 4s.

Great Specialities.

ONLY GENUINE FROM

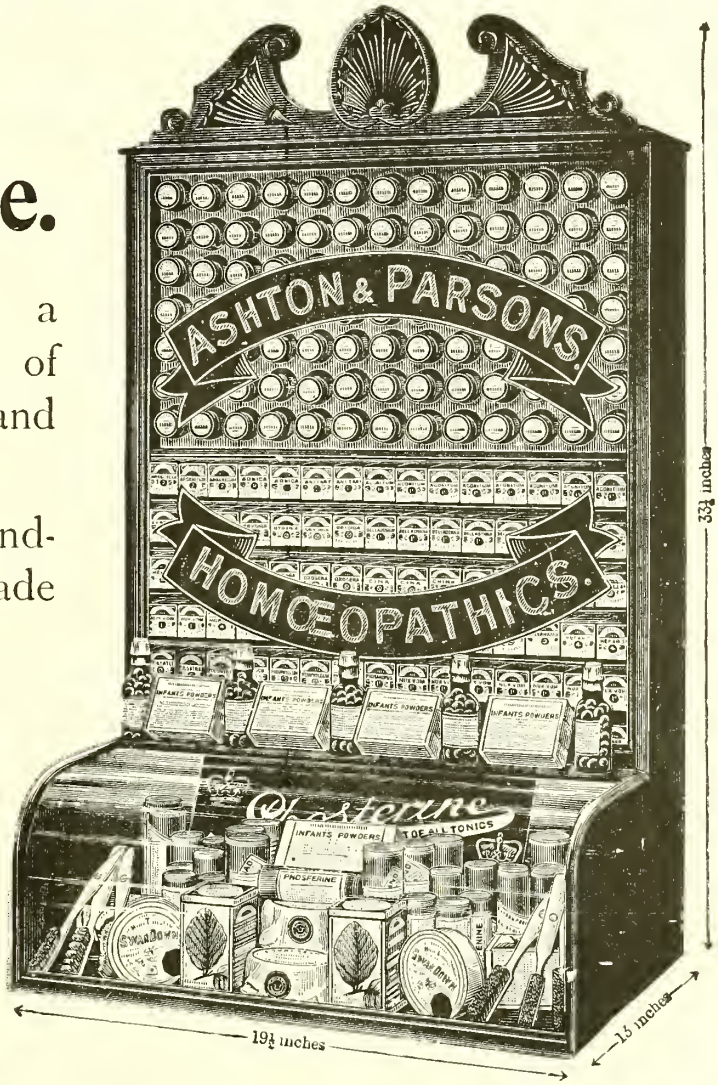
DAY & SONS, CREWE, LTD.,

CREWE, ENGLAND.

LIBERAL TERMS FOR FOREIGN BUYERS.

ASHTON & PARSONS'

"Universe" Show Case.



FILLED with a quick-selling assortment of large **1/-** size Pilules and Tinctures.

Price, including the handsome, beautifully - made mahogany Show Case

£2, 10, 8.

Compare this with the price charged by other makers, whose price is never less than £5.

We charge the actual cost price of the Show Case, plus the contents, at **1/3** per dozen, as follows :—

	£	s.	d.
Cost of Show Case	1	12	0
8⅔ dozen large 1/- size Pilules at 1/3 per dozen	0	10	10
6¼ " " " " Tinctures at 1/3 per dozen ...	0	7	10
	2	10	8

You are not burdened with a lot of high-priced unsaleable Homœopathic Specialities. The Case can be supplied empty if required at the actual cost price of **£1 : 12.**

When not stated the Case is invariably supplied to open at back. The cost of the Case to open at front would be **7s.** extra. All spaces are labelled to enable stock to be kept easily.

Write for Illustrated List post free to all parts of the world.

☛ Old Homœopathic Cases of other makers exchanged free of charge for new on

ASHTON & PARSONS, LTD., La Belle Sauvage, Ludgate Hill, LONDON, E.C.

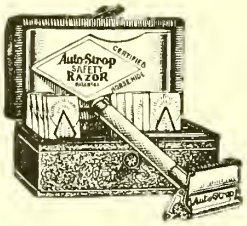
It doesn't
help *your* business
to sell a DULL razor.
The one safety razor that is
always sharp, and will always
satisfy the most fastidious shaver is the

AutoStrop

THE PERFECTED SAFETY RAZOR

The patented self-contained automatic stropping arrangement enables anyone to have a perfectly sharpened blade each and every time it is used. This is why the AutoStrop Safety Razor gives the smoothest and most comfortable shave, and why it continues to do so. Satisfy yourself about this—*send for an Auto-Strop Safety Razor on approval. Simply write to your wholesaler, or to us, and you will receive the razor complete, by return.*

The AutoStrop Safety Razor is particularly well suited to form part of a Chemist's stock. It is quadruple silver-plated and the blades are of the finest lancet-steel. It is packed in a neat leather covered case, daintily lined with velvet. It looks well in your show cases or windows. The retail price is One Guinea net.



PRICES	RETAIL. 21/- each	WHOLESALE.	3 doz. lots, 14/- each; smaller quantities, 14/9 each

Almost all the large Wholesalers now stock the AutoStrop.

Auto-Strop Safety Razor Co., Ltd.

61 NEW OXFORD STREET, LONDON, W.

345 Fifth Avenue, NEW YORK, U.S.A. 14 St. Helen Street, Montreal, CANADA.
23 Rue Vicq d'Azir, PARIS. 1 Dame Court, Dublin.

Brunner, Mond & Co.'s

Alkali Products. BM&Co. TRADE MARK. Crescent Brand.

These products are made by the Ammonia Process, and are distinguished from others by their great purity.

Bicarbonate of Soda. **This Bicarbonate answers all the requirements of the British Pharmacopœia.** It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

Concentrated Crystal Soda. This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali. 58 Degrees. A dry white powder; dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

Pure Soda Crystals. **NOTE.—Proceedings have recently been taken by the Board of Trade against a person for selling as Soda Crystals an adulterated article, and the High Court has upheld the conviction. See the case of FOWLER *v.* CRIPPS, heard on 8th November, 1905, before a Divisional Court, consisting of the Lord Chief Justice, Mr. Justice Wills, and Mr. Justice Darling.**

Caustic Soda. Manufactured from pure Carbonate, and supplied of all degrees of strength.

Bleaching Powder.

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

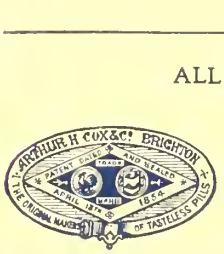
BRUNNER, MOND & CO., LIMITED, NORTHWICH, CHESHIRE.

COX'S SUGAR COATED PILLS

	Per Tin
Pil. Antibilious, 3 gr.	12/6
Pil. Backache and Kidney (Grey Oval)	20/-
Pil. Blaud (Pink or White)	7/6
Pil. Cathartic and Liver	15/-
Pil. Coloc. Co., 3 gr.	25/-
Pil. Coloc. et Hyos., 3 gr.	27/6
Pil. Digestive, 3 gr.	12/6
Pil. Emmenagogue, 3 gr.	25/-
Pil. Rhei Co., 3 gr.	12/6

Per Bulk Tin of 5,000.

ALL CARRIAGE PAID. PRICE LIST AND SAMPLES ON APPLICATION.



ARTHUR H. COX & CO. LTD.

PILL AND TABLET MANUFACTURERS, **BRIGHTON.**

CADBURY'S COCOA

A DELICIOUS BEVERAGE AND AN INVALUABLE FOOD.

PATTINSON'S

MAGNESIA,

CARBONATE, CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, **ENGLAND.**

London Agents—Messrs. CLIFFORD CHRISTOPHERSON & CO., 21 Mincing Lane, London, E.C.

DICHROIC INK

THE BEST BLACK INK KNOWN.

When this Ink is Used Writing becomes a Pleasure.

MAY BE HAD FROM ALL CHEMISTS AND DRUGGISTS.

IN JARS, 6d., 1/-, and 2/- each

BEWLEY & DRAPER, LTD.
DUBLIN.

Printed for the Proprietors by SPOTTISWOODE & Co. LTD., New-street Square; and Published by the Proprietors at 42 Cannon Street, in the City of London.—*February* 6, 1909.